

Digital Inverter 4 series

Outdoor Unit

RAV-SM1104AT8P-E

RAV-SM1104AT8JP-E

RAV-SM1404AT8P-E

RAV-SM1404AT8JP-E

RAV-SM1104AT8P-TR

RAV-SM1404AT8P-TR

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1. Line up

1-1. Single Line-up

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1-1. Single Line-up

Outdoor unit line-up

Model name	RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR	RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR
Appearance		

Indoor unit line-up

Capacity type (HP equivalent)			56 2.0	80 3.0	110 4.0	140 5.0
4-way Cassette	RAV-SM**4UTP-E(TR)					
Compact 4-way Cassette (600*600)	RAV-SM**7MUT-E(TR)					
Ducted	RAV-SM**6BTP-E / E1(TR)					
Slim Duct	RAV-SM**4SDT-E					
Under Ceiling	RAV-SM**8CTP-E(TR)					
High Wall	RAV-SM**6KRT-E(TR)					

1-2. Twin Line-up

Outdoor unit line-up (Twin system)

Model name	RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR	RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR
Appearance		

Indoor unit line-up

Capacity type			56	80	
(HP equivalent)			2.0	3.0	
Indoor unit		unit			Outdoor unit
4-way Cassette	RAV-SM564UTP-E(TR)	2			RAV-SM1104AT8(J)P-E/ RAV-SM1104AT8P-TR
Compact 4-way Cassette (600*600)	RAV-SM567MUT-E(TR)	2			
Ducted	RAV-SM566BTP-E / E1(TR)	2			
Slim Duct	RAV-SM564SDT-E	2			
Under Ceiling	RAV-SM568CTP-E(TR)	2			
High wall	RAV-SM566KRT-E(TR)	2			
4-way Cassette	RAV-SM804UTP-E(TR)	2			RAV-SM1404AT8(J)P-E/ RAV-SM1404AT8P-TR
Ducted	RAV-SM806BTP-E / E1(TR)	2			
Under Ceiling	RAV-SM808CTP-E(TR)	2			
High wall	RAV-SM806KRT-E(TR)	2			

2. Indoor Unit

2-2. 4-way Cassette Type (P)

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2-2-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	1104UTP-E(TR)	1404UTP-E(TR)
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR	1404AT8(J)P-E / 1404AT8P-TR
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)	12.0 (3.0 – 13.2)
Heating capacity (*1)			(kW)	11.2 (3.0 – 13.0)	12.8 (3.0 – 16.0)
Power supply			3 phase 380 – 415V/50Hz, 3phase 380V/60Hz		
Electrical characteristics	Cooling	Running current (A)	4.90 – 4.45		6.90 – 6.35
		Power consumption (kW)	3.02		4.29
		Power factor (%)	94		94
		EER	3.31		2.80
	Heating	Running current (A)	4.75 – 4.35		5.50 – 5.05
		Power consumption	2.93		3.40
		Power factor (%)	94		94
		COP	3.82		3.76
	Maximum current (A)		20.80		22.80
Appearance	Main unit		Zinc hot dipping steel plate		
	Ceiling panel (Sold separately)	Model	RBC-U31PG (W, WS)-E, RBC-U31PGS (W, WS)-E		
		Panel color	W: Moon-white (2.5GY 9.0/0.5), WS: Stripe-white (2.5GY 9.0/0.5, (Gray: 8B 3/0.3))		
Outer dimension	Main unit	Height (mm)	319		
		Width (mm)	840		
		Depth (mm)	840		
	Ceiling panel (Sold separately)	Height (mm)	30		
		Width (mm)	950		
		Depth (mm)	950		
Total weight	Main unit (kg)		24		
	Ceiling panel (Sold separately) (kg)		4.2		
Heat exchanger			Finned tube		
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L (m³/min.)	33.5/24.0/19.5		35.0/24.0/20.5
	Motor (W)		68		72
Air filter			Standard filter attached (Long life filter)		
Controller (Sold separately)			RBC-AMT32E, AMS41E,AMS51E, AMS54E AS21E2, AX31U(W,WS)-E, TCB-AX21E2		
Sound pressure level (*2)		H/M/L (dB•A)	43/38/33		44/38/34
Sound power level (*2)		H/M/L (dB•A)	58/53/48		59/53/49
Connecting pipe		Gas side (mm)	15.9		15.9
		Liquid side (mm)	9.5		9.5
		Drain port (mm)		VP25	

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	564UTP-E(TR)	804UTP-E(TR)
	Indoor unit 2		RAV-SM	564UTP-E(TR)	804UTP-E(TR)
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR	1404AT8(J)P-E / 1404AT8P-TR
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)	12.0 (3.0 – 13.2)
Heating capacity (*1)			(kW)	11.2 (3.0 – 13.0)	12.8 (3.0 – 16.0)
Power supply			3 phase 380 – 415V/50Hz, 3phase 380V/60Hz		
Electrical characteristics	Cooling	Running current	(A)	4.90 – 4.45	6.90 – 6.35
		Power consumption	(kW)	3.02	4.29
		Power factor	(%)	94	94
		EER		3.31	2.80
	Heating	Running current	(A)	4.75 – 4.35	5.50 – 5.05
		Power consumption	(kW)	2.93	3.40
		Power factor	(%)	94	94
		COP		3.82	3.76
Maximum current		(A)	20.8	22.8	
Indoor unit					
Fan unit	Fan		Turbo fan		
	Standard air flow	H/M/L (m³/min.)	17.5/14.5/13.0		20.5/16.0/13.5
	Motor (W)		14		20
Sound pressure level		H/M/L (dB•A)	32/29/28		35/31/28
Sound power level		H/M/L (dB•A)	47/44/43		50/46/43
Outdoor unit					
Refrigerant pipe	Standard length (m)		7.5		
	Min. length (m)		5		
	Max. total length (m)		50		
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)		
	Height difference	Outdoor lower (m)	30		30
		Outdoor higher (m)	30		30
Fan unit	Fan		Propeller fan		
	Standard air flow (m³/min.)		68		70
	Motor (W)		100		100
Connecting pipe	Gas side	Main (mm)	15.9		15.9
		Sub (mm)	12.7		15.9
	Liquid side	Main (mm)	9.5		9.5
		Sub (mm)	6.4		9.5
Sound pressure level (*2)		Cooling/Heating (dB•A)	53/54		54/55
Sound power level (*2)		Cooling/Heating (dB•A)	70/71		70/71

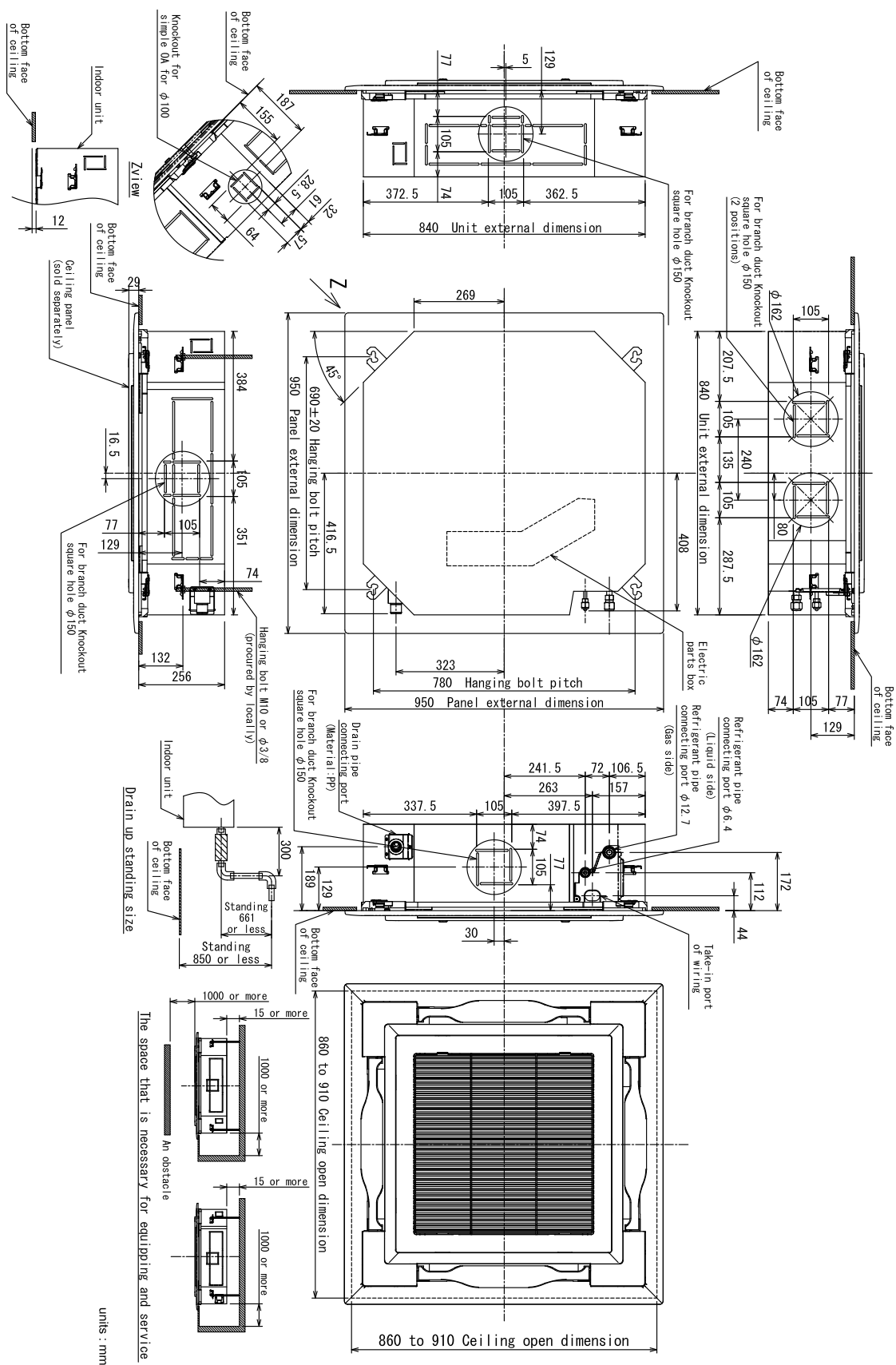
*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

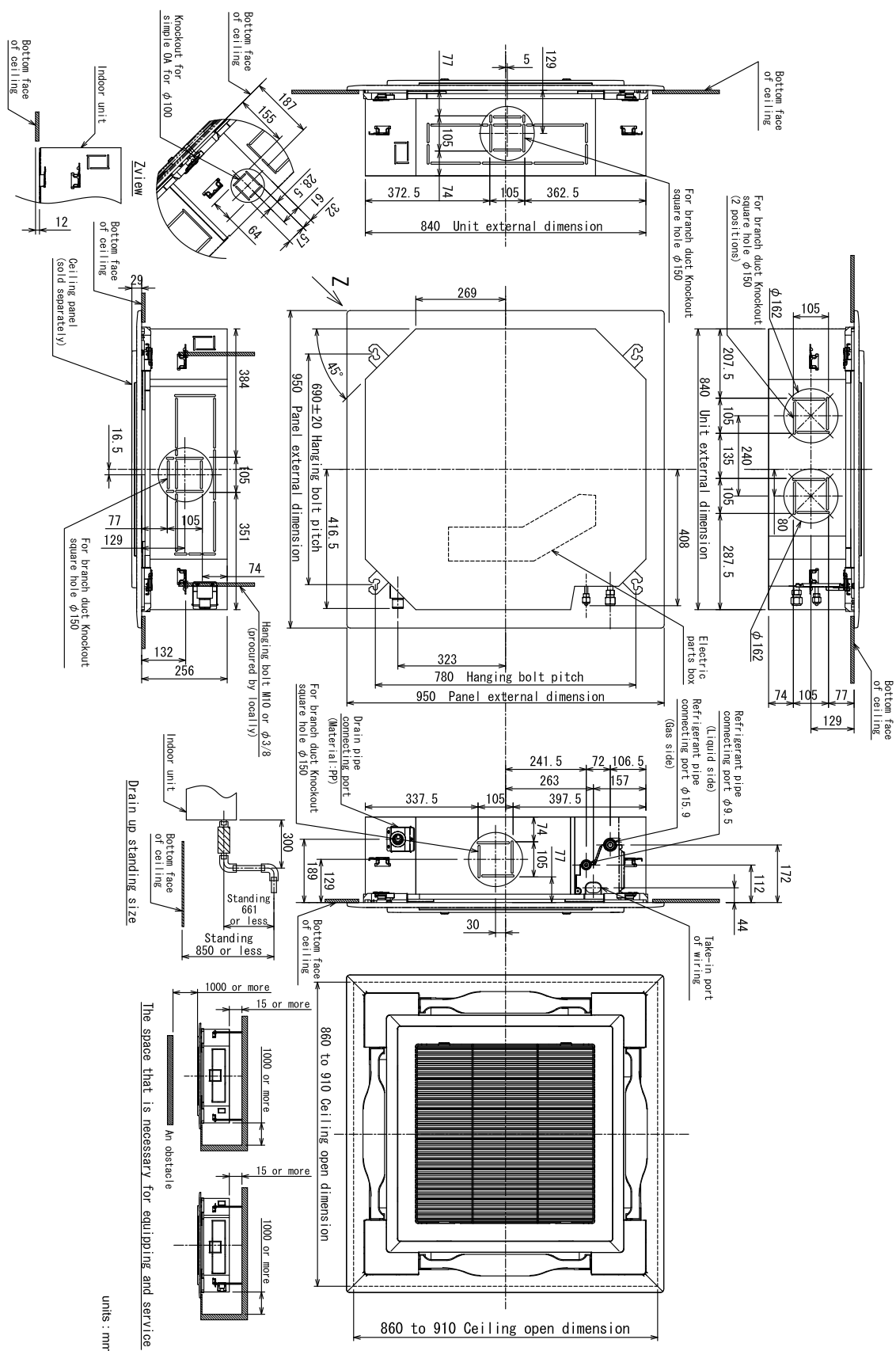
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

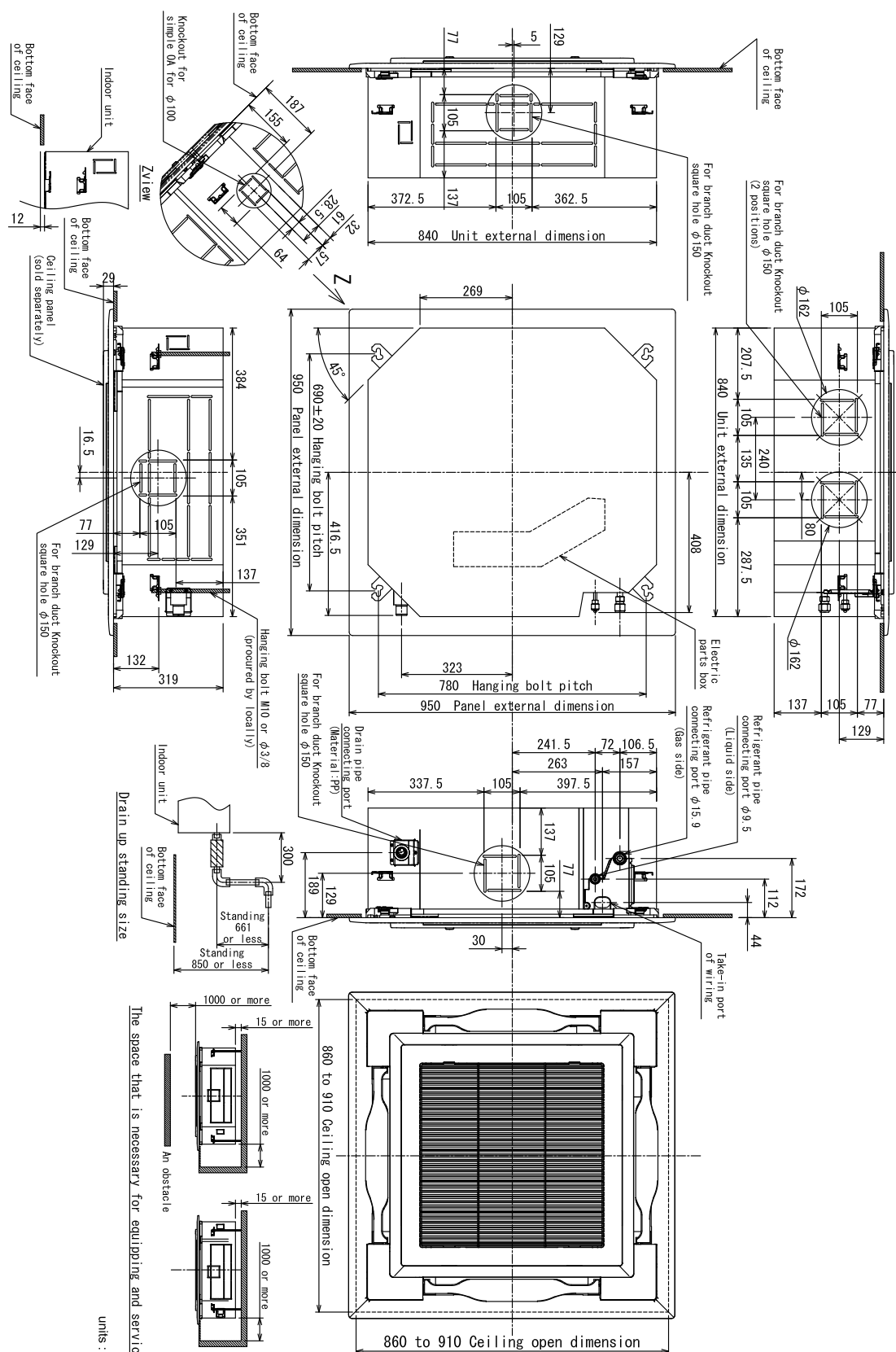
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-2-2. Dimension

RAV-SM564UTP-E(TR)

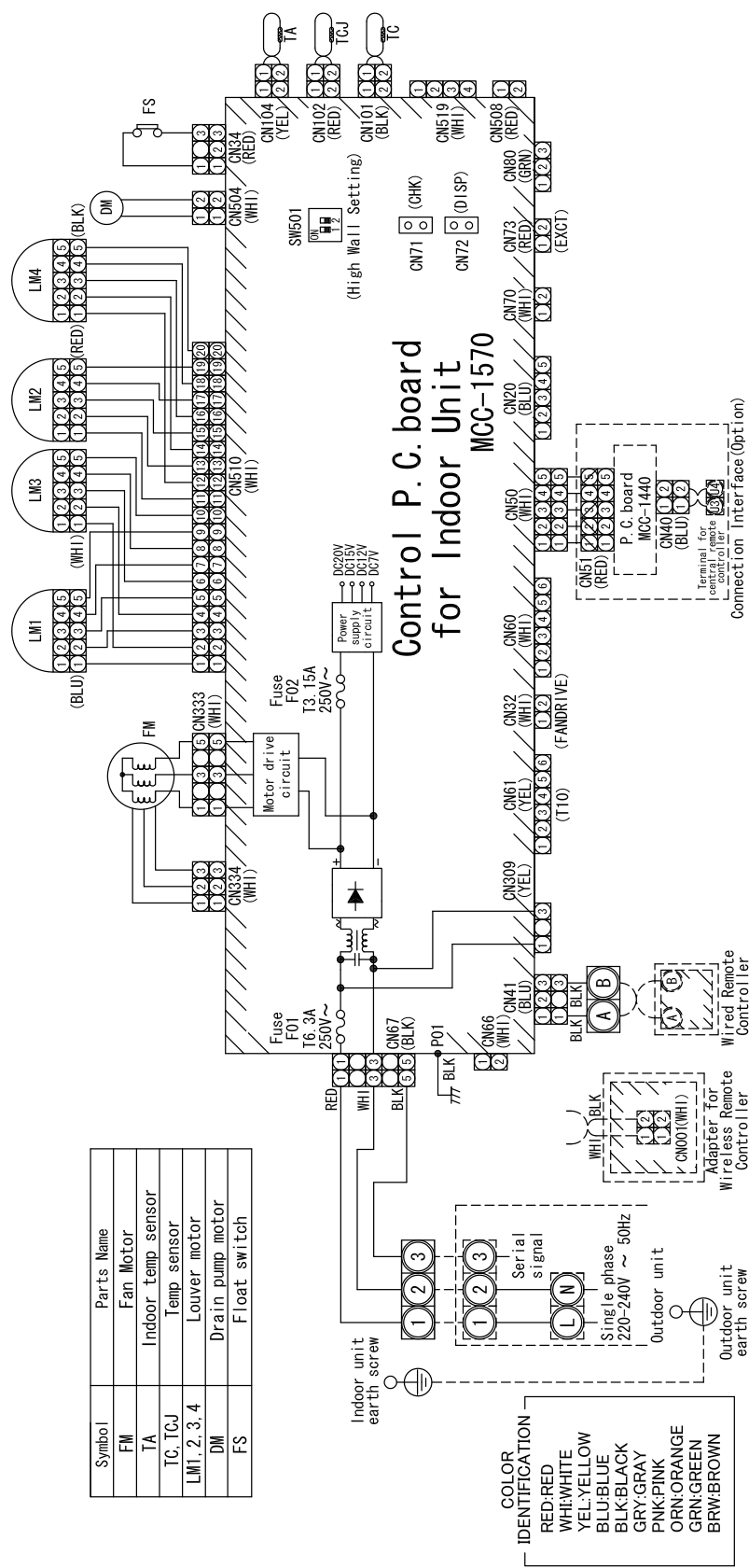
RAV-SM804UTP-E(TR)

RAV-SM1104UTP-E(TR)/RAV-SM1404UTP-E(TR)



2-2-3. Wiring diagrams

RAV-SM564UTP-E(TR)/RAV-SM804UTP-E(TR)/RAV-SM1104UTP-E(TR)/RAV-SM1404UTP-E(TR)



2-2-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***UTP-E(TR)

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.6	4.9	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	5.9	4.5	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.1	5.5	4.2	5.7	4.3	5.8	4.4	6.2	4.7	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.9	5.3	4.0	5.5	4.2	5.6	4.3	5.8	4.4	6.1	4.7	6.4	4.9
	16.0	4.6	3.5	4.8	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.3	5.8	4.4	6.1	4.6	6.4	4.9
	18.0	4.6	3.5	4.8	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.6	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.5	4.2	5.7	4.3	6.0	4.6	6.3	4.8
	21.0	4.5	3.4	4.7	3.6	5.0	3.8	5.2	3.9	5.3	4.1	5.5	4.2	5.6	4.3	6.0	4.5	6.3	4.8
	23.0	4.5	3.4	4.7	3.6	4.9	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.5	6.2	4.7
	25.0	4.4	3.4	4.6	3.5	4.9	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.5	4.2	5.9	4.4	6.1	4.7
	27.0	4.4	3.3	4.6	3.5	4.8	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.5	4.2	5.8	4.4	6.0	4.6
	29.0	4.3	3.3	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.9	5.2	4.0	5.4	4.1	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.3	5.9	4.5
	33.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.8	5.1	3.9	5.2	4.0	5.5	4.2	5.8	4.4
	35.0	4.1	3.1	4.3	3.3	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.1	4.2	3.2	4.4	3.4	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.1	5.6	4.2
	39.0	3.9	3.0	4.2	3.2	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.7	4.9	3.8	5.2	4.0	5.5	4.2

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
804	10.0	6.3	4.7	6.6	4.9	6.9	5.2	7.2	5.4	7.4	5.6	7.7	5.7	7.9	5.9	8.3	6.2	8.7	6.5
	12.0	6.3	4.7	6.6	4.9	6.9	5.2	7.1	5.3	7.4	5.5	7.6	5.7	7.8	5.8	8.3	6.2	8.7	6.5
	14.0	6.2	4.6	6.5	4.9	6.9	5.1	7.1	5.3	7.3	5.5	7.6	5.6	7.8	5.8	8.2	6.1	8.6	6.4
	16.0	6.2	4.6	6.5	4.8	6.8	5.1	7.1	5.3	7.3	5.4	7.5	5.6	7.7	5.8	8.2	6.1	8.6	6.4
	18.0	6.1	4.6	6.4	4.8	6.8	5.0	7.0	5.2	7.2	5.4	7.5	5.6	7.7	5.7	8.1	6.1	8.5	6.3
	20.0	6.1	4.5	6.4	4.8	6.7	5.0	6.9	5.2	7.2	5.4	7.4	5.5	7.6	5.7	8.1	6.0	8.4	6.3
	21.0	6.0	4.5	6.4	4.7	6.7	5.0	6.9	5.2	7.1	5.3	7.4	5.5	7.6	5.6	8.0	6.0	8.4	6.3
	23.0	6.0	4.5	6.3	4.7	6.6	4.9	6.8	5.1	7.1	5.3	7.3	5.4	7.5	5.6	7.9	5.9	8.3	6.2
	25.0	5.9	4.4	6.2	4.6	6.5	4.9	6.8	5.0	7.0	5.2	7.2	5.4	7.4	5.5	7.8	5.9	8.2	6.1
	27.0	5.8	4.4	6.1	4.6	6.5	4.8	6.7	5.0	6.9	5.2	7.1	5.3	7.3	5.5	7.8	5.8	8.1	6.0
	29.0	5.8	4.3	6.1	4.5	6.4	4.8	6.6	4.9	6.8	5.1	7.0	5.2	7.2	5.4	7.6	5.7	8.0	6.0
	31.0	5.7	4.2	6.0	4.5	6.3	4.7	6.5	4.9	6.7	5.0	6.9	5.2	7.1	5.3	7.5	5.6	7.9	5.9
	33.0	5.6	4.2	5.9	4.4	6.2	4.6	6.4	4.8	6.6	4.9	6.8	5.1	7.0	5.2	7.4	5.5	7.8	5.8
	35.0	5.5	4.1	5.8	4.3	6.1	4.5	6.3	4.7	6.5	4.9	6.7	5.0	6.9	5.1	7.3	5.4	7.6	5.7
	37.0	5.4	4.0	5.7	4.2	6.0	4.4	6.2	4.6	6.4	4.8	6.6	4.9	6.8	5.0	7.2	5.3	7.5	5.6
	39.0	5.3	3.9	5.6	4.2	5.8	4.4	6.0	4.5	6.3	4.7	6.4	4.8	6.6	4.9	7.0	5.2	7.3	5.5

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1104	10.0	9.4	7.5	9.9	7.9	10.4	8.3	10.7	8.6	11.1	8.9	11.4	9.1	11.8	9.4	12.5	10.0	13.0	10.4
	12.0	9.3	7.5	9.8	7.9	10.3	8.2	10.7	8.5	11.0	8.8	11.4	9.1	11.7	9.3	12.4	9.9	12.9	10.4
	14.0	9.3	7.4	9.8	7.8	10.2	8.2	10.6	8.5	11.0	8.8	11.3	9.0	11.6	9.3	12.3	9.8	12.9	10.3
	16.0	9.2	7.4	9.7	7.8	10.2	8.1	10.5	8.4	10.9	8.7	11.2	9.0	11.5	9.2	12.2	9.8	12.8	10.2
	18.0	9.1	7.3	9.6	7.7	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.9	11.4	9.2	12.1	9.7	12.7	10.1
	20.0	9.1	7.2	9.5	7.6	10.0	8.0	10.4	8.3	10.7	8.6	11.0	8.8	11.3	9.1	12.0	9.6	12.6	10.1
	21.0	9.0	7.2	9.5	7.6	10.0	8.0	10.3	8.3	10.7	8.5	11.0	8.8	11.3	9.0	12.0	9.6	12.5	10.0
	23.0	8.9	7.1	9.4	7.5	9.9	7.9	10.2	8.2	10.6	8.4	10.9	8.7	11.2	8.9	11.8	9.5	12.4	9.9
	25.0	8.8	7.1	9.3	7.4	9.8	7.8	10.1	8.1	10.4	8.4	10.8	8.6	11.1	8.8	11.7	9.4	12.2	9.8
	27.0	8.7	7.0	9.2	7.3	9.6	7.7	10.0	8.0	10.3	8.3	10.6	8.5	10.9	8.7	11.6	9.3	12.1	9.7
	29.0	8.6	6.9	9.1	7.2	9.5	7.6	9.8	7.9	10.2	8.1	10.5	8.4	10.8	8.6	11.4	9.1	11.9	9.6
	31.0	8.5	6.8	8.9	7.1	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.3	10.6	8.5	11.3	9.0	11.8	9.4
	33.0	8.4	6.7	8.8	7.0	9.2	7.4	9.6	7.6	9.9	7.9	10.2	8.1	10.5	8.4	11.1	8.9	11.6	9.3
	35.0	8.2	6.6	8.6	6.9	9.1	7.3	9.4	7.5	9.7	7.8	10.0	8.0	10.3	8.2	10.9	8.7	11.4	9.1
	37.0	8.1	6.4	8.5	6.8	8.9	7.1	9.2	7.4	9.5	7.6	9.8	7.8	10.1	8.1	10.7	8.5	11.2	8.9
	39.0	7.9	6.3	8.3	6.6	8.7	7.0	9.0	7.2	9.3	7.5	9.6	7.7	9.9	7.9	10.5	8.4	10.9	8.8

unit size	outdoor air temp. °CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1404	10.0	11.3	8.7	11.9	9.2	12.4	9.6	12.9	10.0	13.3	10.3	13.7	10.6	14.1	10.9	14.9	11.6	15.6	12.1
	12.0	11.2	8.7	11.8	9.1	12.4	9.6	12.8	9.9	13.2	10.3	13.6	10.6	14.0	10.9	14.8	11.5	15.5	1

2-2-5. Part load performance

Combination

Indoor unit : RAV-SM1104UTP-E(TR)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3020	11200	2930

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3280	2620	2130	1720	1380	1070	840	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3020	2410	1960	1580	1260	980	770	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2740	2190	1780	1440	1150	890	700	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2490	1990	1620	1310	1040	810	640	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2250	1800	1460	1180	940	730	580	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3590	3590
	W	3220	2760	2320	1890	1510	1190	920	710	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3260	3260
	W	3060	2630	2210	1800	1440	1130	870	680	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2930	2520	2120	1730	1380	1080	840	650	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2510	2160	1820	1480	1180	930	720	560	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2480	2130	1790	1460	1170	910	710	550	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2110	1770	1450	1160	910	700	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2400	2060	1730	1410	1130	880	680	530	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2110	2110
	W	2370	2040	1710	1400	1120	880	680	530	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1650	1350	1180	840	650	510	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2040	1760	1480	1200	960	750	580	450	420	420

Combination

Indoor unit : RAV-SM1404UTP-E(TR)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12000	4290	12800	3400

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11370	10230	9100	7960	6820	5680	4550	3410	2840	2840
	W	4670	3770	2960	2270	1730	1300	990	750	650	650
35	Q	12000	10800	9600	8400	7200	6000	4800	3600	3000	3000
	W	4290	3470	2720	2090	1590	1200	910	690	600	600
30	Q	12580	11320	10060	8810	7550	6290	5040	3770	3140	3140
	W	3890	3150	2470	1900	1440	1090	830	630	540	540
25	Q	13050	11750	10450	9140	7830	6530	5230	3920	3260	3260
	W	3540	2860	2240	1730	1310	990	750	570	500	500
20	Q	13410	12070	10730	9390	8050	6700	5370	4020	3350	3350
	W	3200	2590	2030	1560	1180	890	680	510	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3730	3140	2610	2150	1740	1380	1060	800	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3550	2990	2490	2050	1650	1310	1010	760	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3400	2860	2380	1960	1580	1250	960	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2920	2450	2040	1680	1360	1080	830	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2880	2420	2020	1660	1340	1060	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2850	2400	2000	1640	1330	1050	810	610	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2780	2340	1950	1600	1290	1030	790	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2750	2320	1930	1590	1280	1020	780	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2650	2230	1860	1530	1230	980	750	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2370	1990	1660	1370	1100	870	670	510	420	420

Combination

Indoor unit : RAV-SM564UTP-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3020	11200	2930

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3280	2620	2130	1720	1380	1070	840	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3020	2410	1960	1580	1260	980	770	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2740	2190	1780	1440	1150	890	700	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2490	1990	1620	1310	1040	810	640	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2250	1800	1460	1180	940	730	580	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3590	3590
	W	3220	2760	2320	1890	1510	1190	920	710	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3260	3260
	W	3060	2630	2210	1800	1440	1130	870	680	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2930	2520	2120	1730	1380	1080	840	650	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2510	2160	1820	1480	1180	930	720	560	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2480	2130	1790	1460	1170	910	710	550	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2110	1770	1450	1160	910	700	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2400	2060	1730	1410	1130	880	680	530	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2110	2110
	W	2370	2040	1710	1400	1120	880	680	530	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1650	1350	1180	840	650	510	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2040	1760	1480	1200	960	750	580	450	420	420

Combination

Indoor unit : RAV-SM804UTP-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12000	4290	12800	3400

Q: Capacity in W
W: Power Consumption in W

Cooling

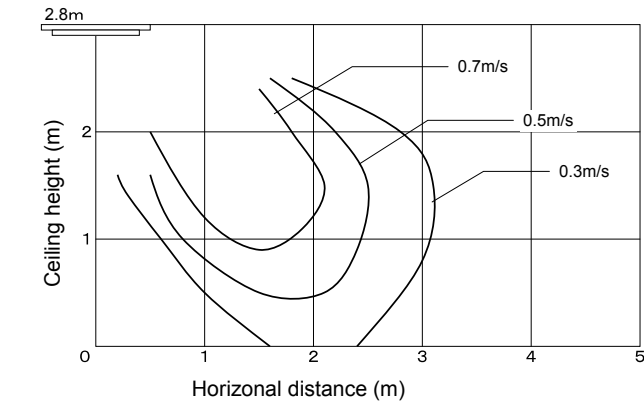
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11370	10230	9100	7960	6820	5680	4550	3410	2840	2840
	W	4670	3770	2960	2270	1730	1300	990	750	650	650
35	Q	12000	10800	9600	8400	7200	6000	4800	3600	3000	3000
	W	4290	3470	2720	2090	1590	1200	910	690	600	600
30	Q	12580	11320	10060	8810	7550	6290	5040	3770	3140	3140
	W	3890	3150	2470	1900	1440	1090	830	630	540	540
25	Q	13050	11750	10450	9140	7830	6530	5230	3920	3260	3260
	W	3540	2860	2240	1730	1310	990	750	570	500	500
20	Q	13410	12070	10730	9390	8050	6700	5370	4020	3350	3350
	W	3200	2590	2030	1560	1180	890	680	510	450	450

Heating

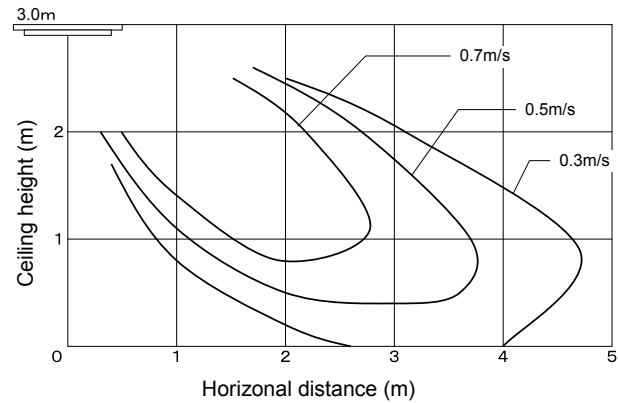
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3730	3140	2610	2150	1740	1380	1060	800	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3550	2990	2490	2050	1650	1310	1010	760	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3400	2860	2380	1960	1580	1250	960	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2920	2450	2040	1680	1360	1080	830	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2880	2420	2020	1660	1340	1060	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2850	2400	2000	1640	1330	1050	810	610	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2780	2340	1950	1600	1290	1030	790	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2750	2320	1930	1590	1280	1020	780	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2650	2230	1860	1530	1230	980	750	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2370	1990	1660	1370	1100	870	670	510	420	420

2-2-6. Air throw distance chart

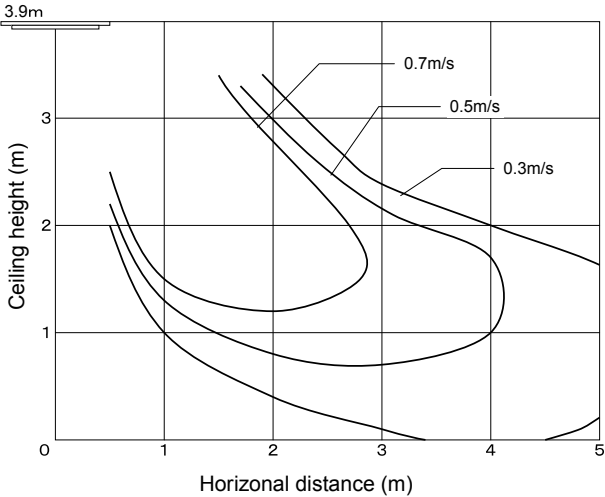
RAV-SM564UTP-E(TR)



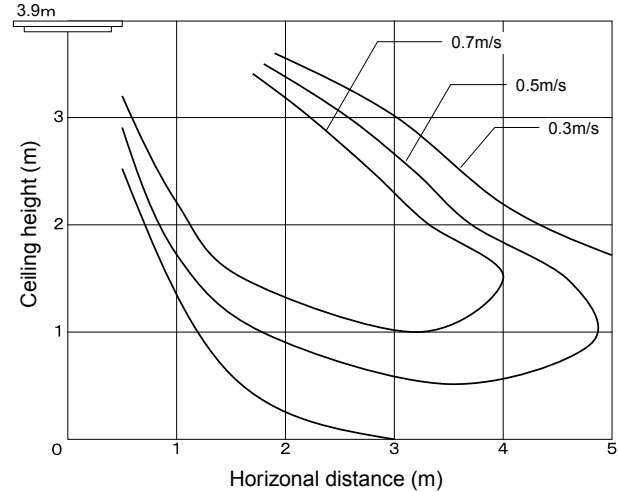
RAV-SM804UTP-E(TR)



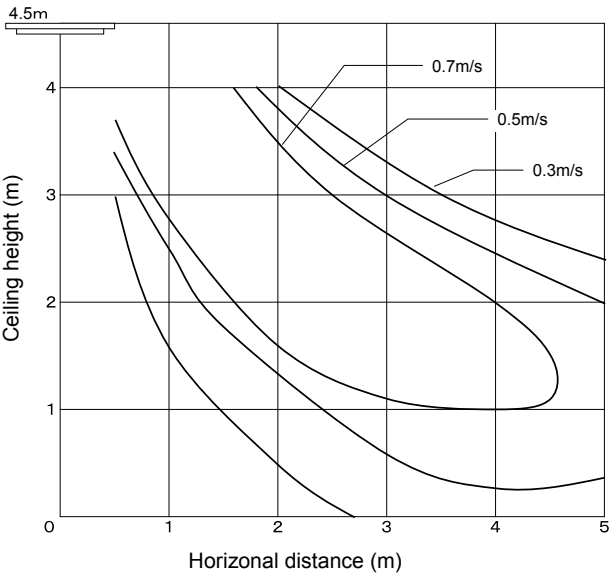
RAV-SM1104UTP-E(TR)



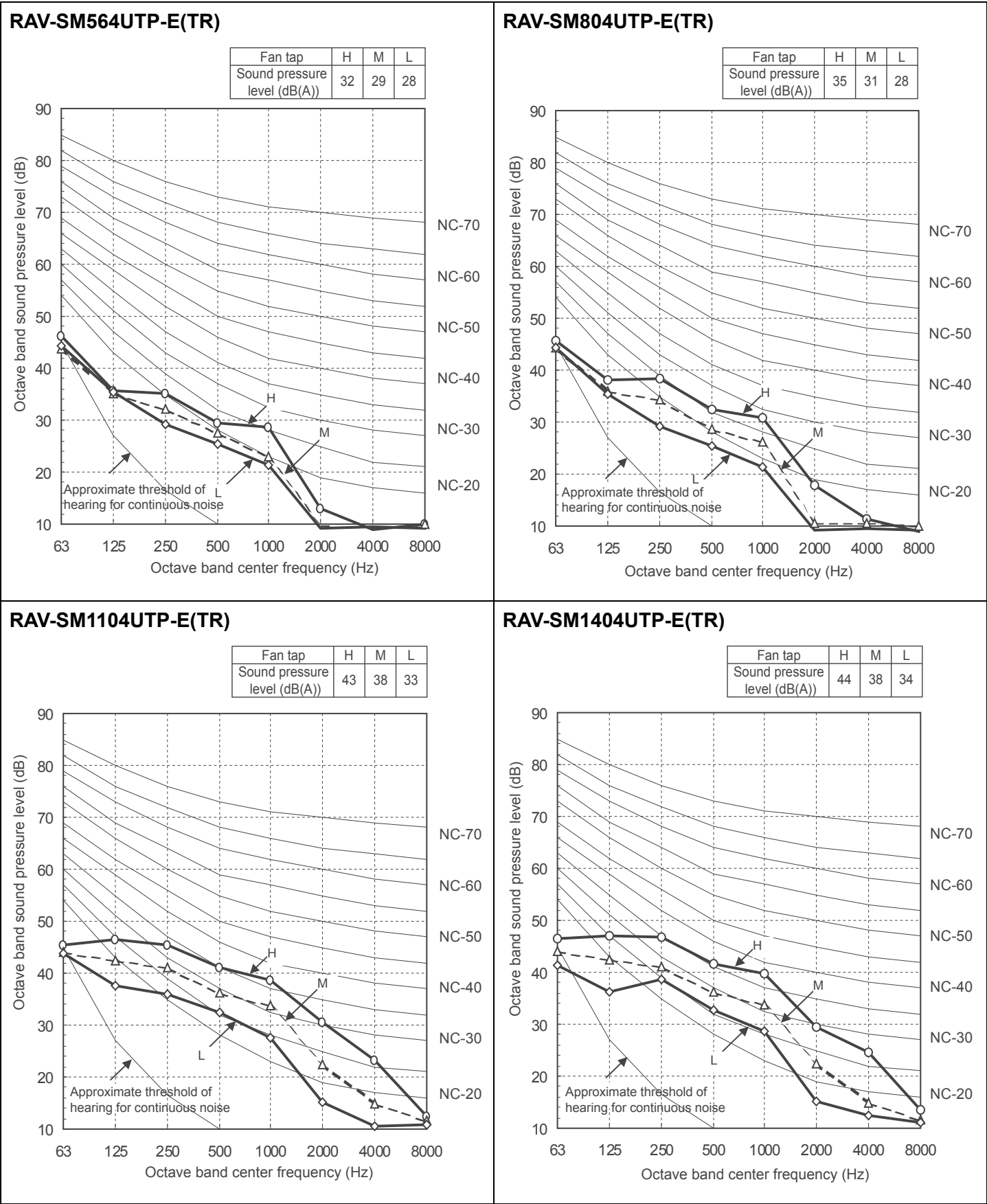
RAV-SM1404UTP-E(TR)



RAV-SM1104UTP-E(TR), RAV-SM1404UTP-E(TR)
(High ceiling)



2-2-7. Sound characteristics (NC curve)



2-3. Compact 4-way Cassette Type

2-3-1. Specifications

2-3-2. Dimension

2-3-3. Wiring diagrams

2-3-4. Sensible capacity table

2-3-5. Part load performance

2-3-6. Air throw distance chart

2-3-7. Sound characteristics (NC curve)

2-3-1. Specifications

<Twin type>

Model name	Indoor Unit 1		RAV-SM	567MUT-E(TR)	
	Indoor Unit 2		RAV-SM	567MUT-E(TR)	
	Indoor Unit 3		RAV-SM	--	
	Indoor Unit 4		RAV-SM	--	
	Outdoor Unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR	
Cooling capacity (Rated (Min.-Max.)) (*1)			kW	10.0 (3.0 - 11.2)	
Heating capacity (Rated (Min.-Max.)) (*1)			kW	11.2 (3.0 - 13.0)	
Power supply				3phase 50Hz 380V(380V-415V)	
Electrical characteristics	Cooling	Running current	A	5.10 - 4.65	
		Power consumption	kW	3.16	
		Power factor	%	94	
		EER		3.16	
	Heating	Running current	A	4.85 - 4.45	
		Power consumption	kW	2.99	
		Power factor	%	96	
		COP		3.75	
	Maximum current			20.70	
Indoor Unit					
Appearance	Main Unit			Zinc hot dipping steel plate * Heat-insulating material attached to only upper plate	
	Ceiling panel (Sold Separately)	Model name		RBC-UM21PG(W)-E	
		Color		Gran White (Mansell 5PB9/1)	
Outer dimension	Main unit	H x W x D (*3)	mm	256 x 575 x 575	
	Ceiling panel (Sold Separately)	H x W x D (*3)	mm	12 x 620 x 620	
Weight	Main unit		kg	15.0	
	Ceiling panel (Sold Separately)		kg	2.5	
Heat exchanger				Finned tube	
Fan unit	Fan			Turbo fan	
	Standard air flow (M+ / M / L+ / L)		m³/h	798(720/672/562/546)	
	Motor		W	60	
Air filter				Standard filter (Long life filter)	
Drain port (Nominal dia. mm)				VP20 (Polyvinyl chloride tube)	
Sound pressure level	High (M+ / M / L+ / L)		dB(A)	44 (42 / 39 / 36 / 35)	
Sound power level	High (M+ / M / L+ / L)		dB(A)	59 (57 / 54 / 51 / 50)	
Outdoor Unit					
Refrigerant (Type / Charge weight (kg))				R410A / 2.8	
Outer dimension	H x W x D		mm	890 x 900 x 320	
Weight			kg	68	
Sound pressure level (*2)	Cooling/Heating		dB(A)	53	/ 54
Sound power level (*2)	Cooling/Heating		dB(A)	70	/ 71
Pipe connections	Outdoor unit - First pipe branch	Gas / Liquid	mm	φ 15.9 / φ 9.5	
	First pipe branch - Second pipe branch	Gas / Liquid	mm	φ 12.7 / φ 6.4	
	Second pipe branch - Indoor unit	Gas / Liquid	mm	-	
	Min. Length		m	5	
	Max. Length		m	50	
	Chargeless		m	30	
	Level difference		m	30	
Operation Range	Cooling		°C	-15 to 46	
	Heating		°C	-15 to 15	

*1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m of branch piping connected with 0 meter height.

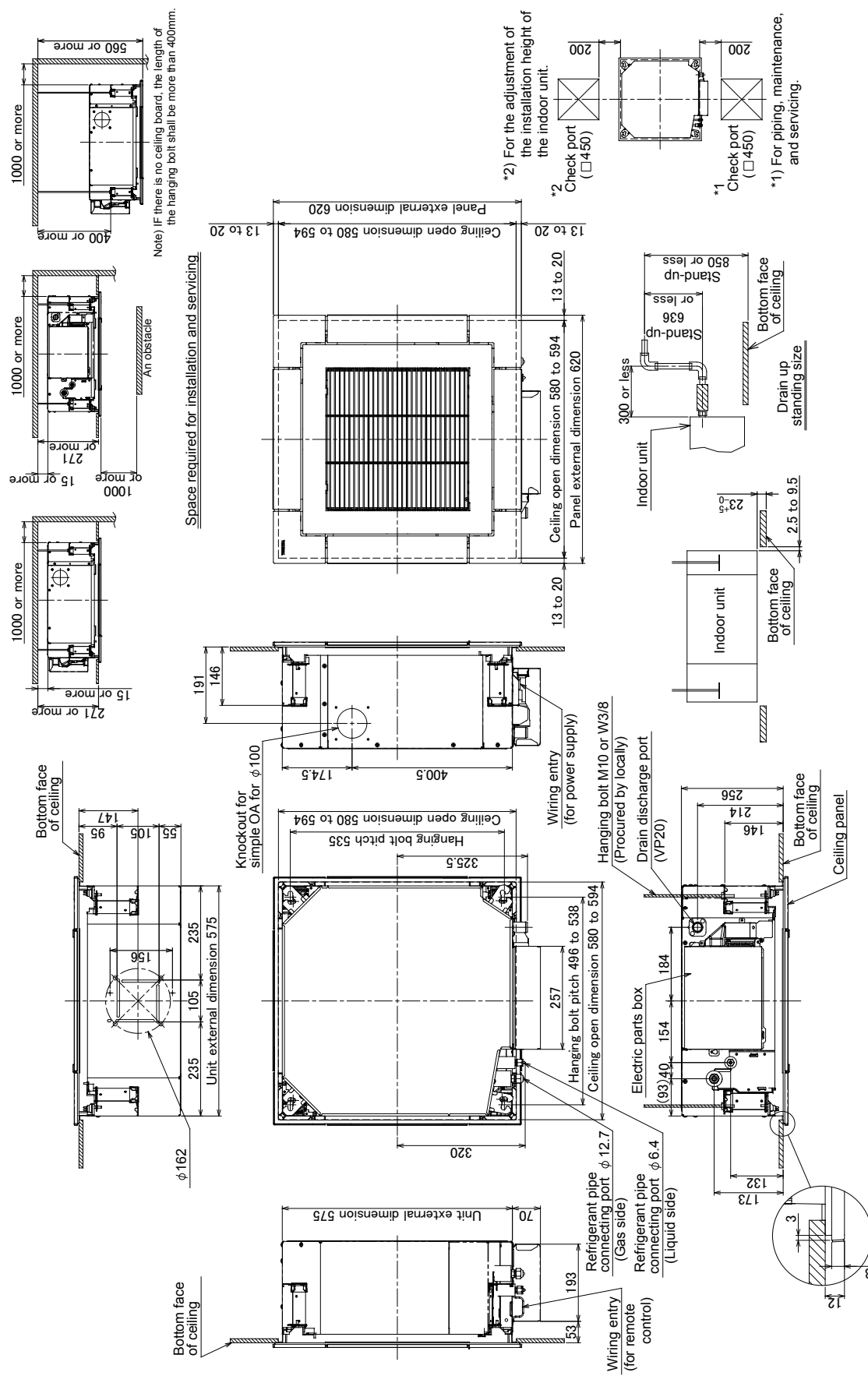
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

*3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes ;

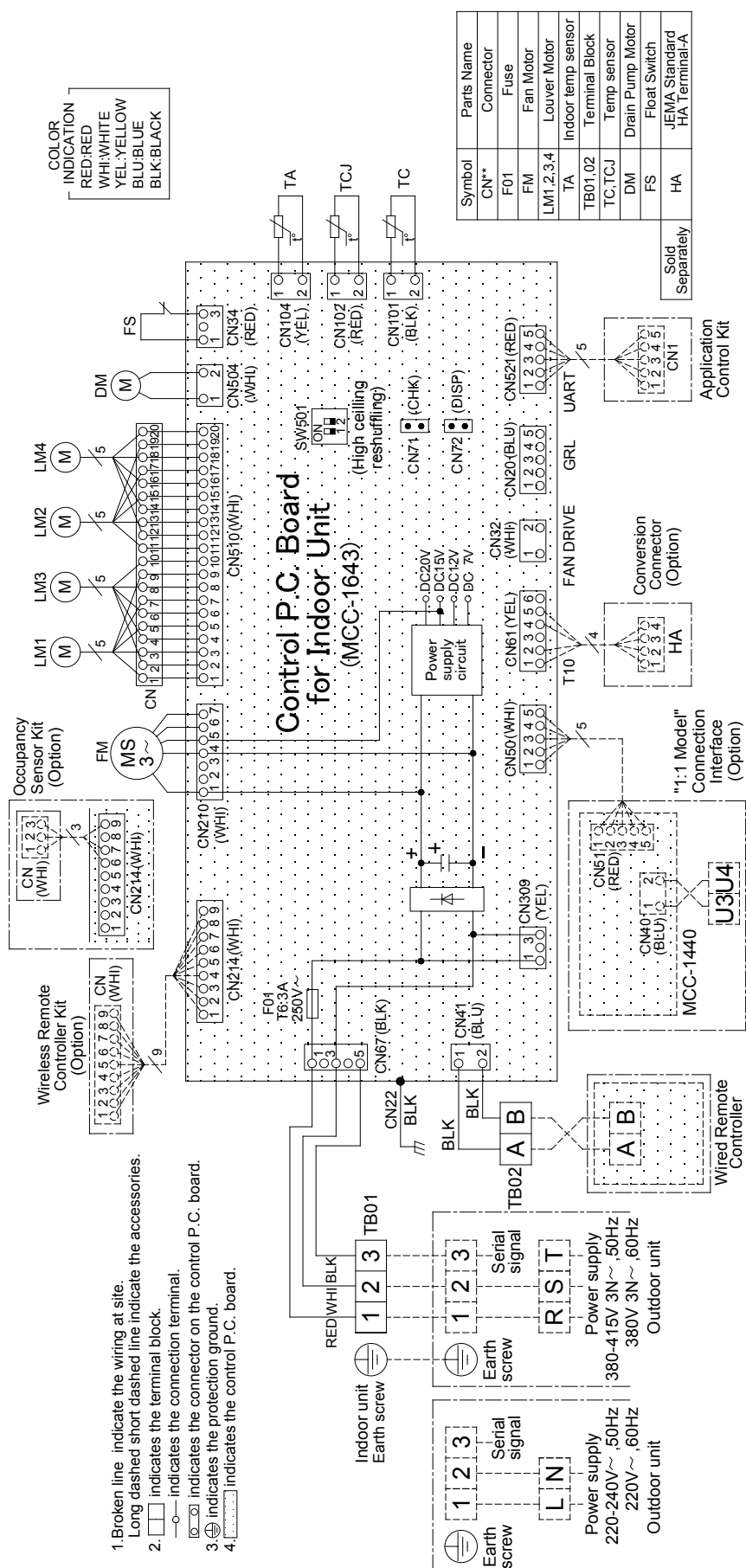
Rated conditions Cooling : Indoor air temperature 27 °C DB/ 19 °C WB, Outdoor air temperature 35 °C DB
Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB/ 6 °C WB

2-3-2. Dimension

RAV-SM567MUT-E(TR)

(Unit:mm)

2-3-3. Wiring diagrams

RAV-SM567MUT-E(TR)

2-3-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat capacity : RAV-SM***7MUT-E(TR)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
567	10.0	4.7	3.5	4.9	3.7	5.2	3.8	5.4	4.0	5.6	4.1	5.7	4.2	5.9	4.4	6.2	4.6	6.5	4.8
	12.0	4.7	3.5	4.9	3.6	5.2	3.8	5.3	3.9	5.5	4.1	5.7	4.2	5.8	4.3	6.2	4.6	6.5	4.8
	14.0	4.6	3.4	4.9	3.6	5.1	3.8	5.3	3.9	5.5	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	16.0	4.6	3.4	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.8	4.3	6.1	4.5	6.4	4.7
	18.0	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.6	4.1	5.7	4.2	6.1	4.5	6.3	4.7
	20.0	4.5	3.4	4.8	3.5	5.0	3.7	5.2	3.8	5.4	4.0	5.5	4.1	5.7	4.2	6.0	4.4	6.3	4.6
	21.0	4.5	3.3	4.7	3.5	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.1	5.6	4.2	6.0	4.4	6.3	4.6
	23.0	4.5	3.3	4.7	3.5	4.9	3.6	5.1	3.8	5.3	3.9	5.4	4.0	5.6	4.1	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.4	4.9	3.6	5.0	3.7	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.3	6.1	4.5
	27.0	4.4	3.2	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.5	4.0	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.5	4.9	3.6	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.2	6.0	4.4
	31.0	4.2	3.1	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.7	5.2	3.8	5.3	3.9	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.1	5.8	4.3
	35.0	4.1	3.0	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.7	5.1	3.8	5.4	4.0	5.7	4.2
	37.0	4.0	3.0	4.2	3.1	4.4	3.3	4.6	3.4	4.8	3.5	4.9	3.6	5.0	3.7	5.3	4.0	5.6	4.1
	39.0	3.9	2.9	4.2	3.1	4.4	3.2	4.5	3.3	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-3-5. Part load performance

Combination

Indoor unit : RAV-SM567MUT-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Q	W	Q	W
MINIMUM	3000	600	3000	600
RATING	10000	3150	11200	3260

Q: Capacity in W

W: Power Consumption in W

Cooling

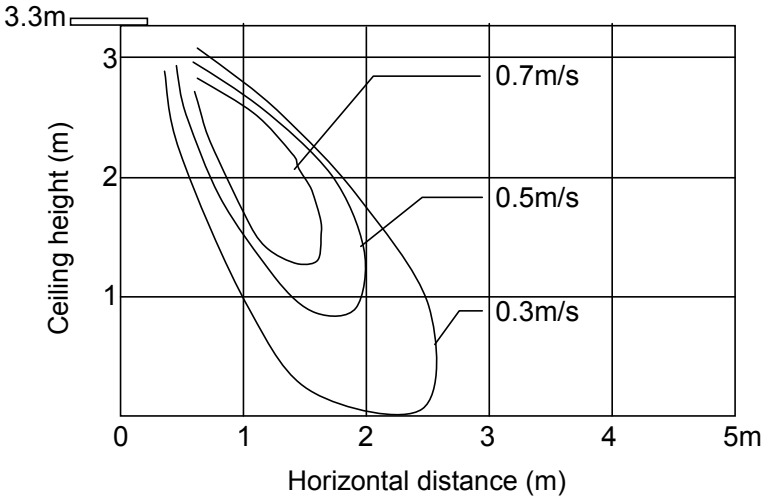
OD temp.		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9460	8510	7570	6620	5680	4730	3780	2840	2840	2840
	W	3380	2850	2380	1930	1520	1210	1020	640	640	640
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3150	2660	2220	1800	1420	1130	950	600	600	600
30	Q	10540	9490	8430	7380	6320	5270	4220	3160	3160	3160
	W	2920	2470	2060	1670	1320	1050	880	560	560	560
25	Q	11070	9960	8860	7750	6640	5540	4430	3320	3320	3320
	W	2700	2280	1900	1540	1220	970	810	510	510	510
20	Q	11610	10450	9290	8130	6970	5810	4640	3480	3480	3480
	W	2290	1940	1620	1310	1040	820	690	440	440	440

Heating

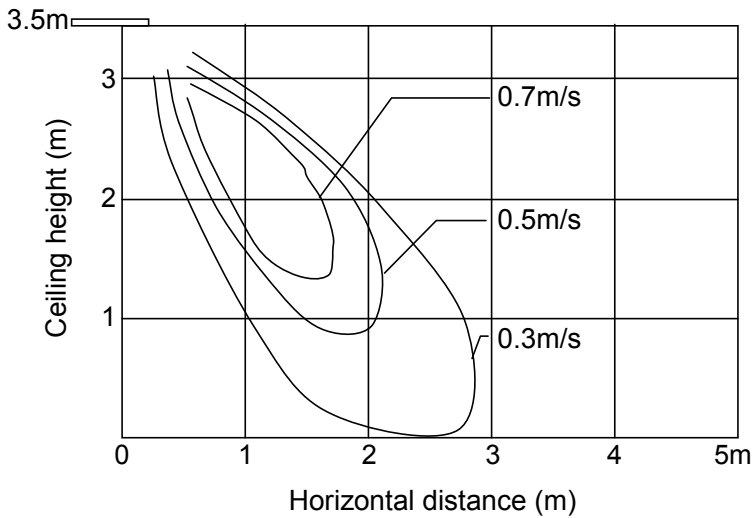
OD temp.		Load(%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	14760	13290	11810	10330	8860	7380	5900	4430	3950	3950
	W	3700	3210	2700	2200	1800	1400	1080	890	680	680
15	Q	13510	12160	10810	9450	8100	6750	5400	4050	3620	3620
	W	3590	3120	2620	2140	1750	1350	1050	860	660	660
10	Q	12260	11040	9810	8580	7360	6130	4910	3680	3280	3280
	W	3410	2960	2490	2030	1660	1290	990	820	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	3260	2830	2380	1940	1590	1230	950	780	600	600
5	Q	10450	9400	8360	7310	6270	5220	4180	3130	2800	2800
	W	3160	2750	2310	1880	1540	1190	920	760	580	580
2	Q	9360	8430	7490	6550	5620	4680	3750	2810	2510	2510
	W	3000	2530	2130	1730	1420	1100	850	700	530	530
0	Q	7310	6580	5850	5120	4390	3660	2930	2190	1960	1960
	W	2670	2320	1950	1590	1300	1010	780	640	490	490
-5	Q	7310	6580	5850	5120	4390	3660	2930	2190	1960	1960
	W	2670	2320	1950	1590	1300	1010	780	640	490	490
-7	Q	6880	6190	5500	4810	4130	3440	2750	2060	1840	1840
	W	2590	2250	1890	1540	1260	980	750	620	480	480
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1690	1690
	W	2480	2150	1810	1470	1210	930	720	590	460	460
-15	Q	5310	4780	4250	3720	3190	2650	2120	1590	1420	1420
	W	2340	2030	1710	1390	1140	880	680	560	430	430

2-3-6. Air throw distance chart

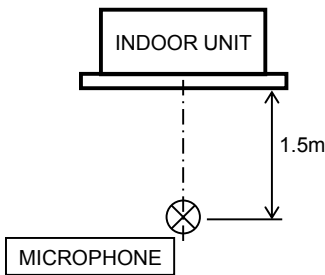
RAV-SM567MUT-E(TR)



RAV-SM567MUT-E(TR) (High ceiling mode)

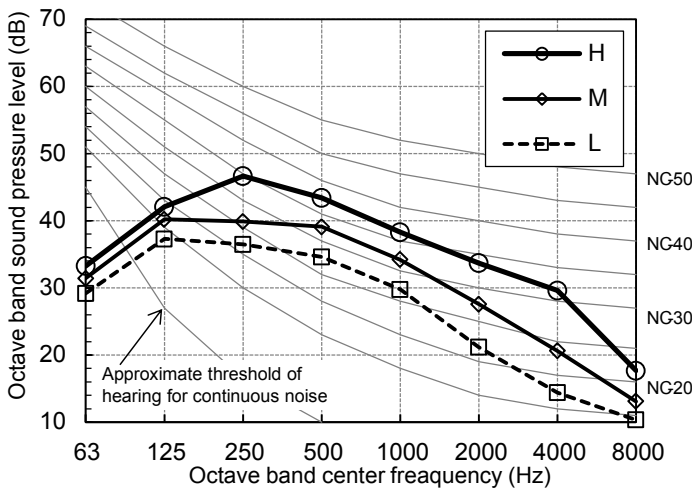


2-3-7. Sound characteristics (NC curve)



RAV-SM567MUT-E(TR)

Fan tap	H	M	L
Sound pressure level (dB(A))	44	39	35



2-4. Ducted Type (6 series)

2-4-1. Specifications

2-4-2. Dimension

2-4-3. Wiring diagrams

2-4-4. Sensible capacity table

2-4-5. Part load performance

2-4-6. Fan static characteristics

2-4-7. Sound characteristics (NC curve)

2-4-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	1106BTP-E(TR)	1406BTP-E(TR)
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR	1404AT8(J)P-E / 1404AT8P-TR
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)
Heating capacity (*1)			(kW)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)
Power supply			3 phase 380 – 415V/50Hz, 3 phase 380V/60Hz		
Electrical characteristics	Cooling	Running current	(A)	5.10 – 4.65	7.15 – 6.55
		Power consumption	(kW)	3.14	4.42
		Power factor	(%)	94	94
		EER		3.18	2.74
	Heating	Running current	(A)	4.85 - 4.45	5.75 – 5.25
		Power consumption	(kW)	2.99	3.55
		Power factor	(%)	94	94
		COP		3.75	3.61
	Maximum current		(A)	22.0	22.8
Appearance	Main unit		Zinc hot dipping steel plate		
Outer dimension	Main unit	Height	(mm)	275	
		Width	(mm)	1,400	
		Depth	(mm)	750	
Total weight	Main unit		(kg)	40	
Heat exchanger			Finned tube		
Fan unit	Fan		Centrifugal fan		
	Standard air flow	H/M/L	(m³/min.)	35.0/27.5/21.0	35.0/27.5/21.0
	Motor		(W)	250	
	External static pressure	Standard (Upper – Lower)	(Pa)	50 (120 – 30)	
Air filter			Long life filter		
Controller (Sold separately)			RBC-AMT32E, AMS41E, AS21E2		
Connecting pipe		Gas side	(mm)	15.9	
		Liquid side	(mm)	9.5	
		Drain port	(mm)	VP25	
Sound pressure level (*2)		H/M/L	(dB•A)	40/36/33	40/36/33
Sound power level (*2)		H/M/L	(dB•A)	55/51/48	55/51/48

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	566BTP-E / E1(TR)	806BTP-E / E1(TR)	
	Indoor unit 2		RAV-SM	566BTP-E / E1(TR)	806BTP-E / E1(TR)	
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR	1404AT8(J)P-E / 1404AT8P-TR	
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)	
Heating capacity (*1)			(kW)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)	
Power supply				3 phase 380 – 415V/50Hz, 3 phase 380V/60Hz		
Electrical characteristics	Cooling	Running current	(A)	5.10 – 4.65	7.15 – 6.55	
		Power consumption	(kW)	3.14	4.42	
		Power factor	(%)	94	94	
		EER		3.18	2.74	
	Heating	Running current	(A)	4.85 – 4.55	5.75 – 5.25	
		Power consumption	(kW)	2.99	3.55	
		Power factor	(%)	94	94	
		COP		3.75	3.61	
Maximum current		(A)	22.0	22.8		
Fan unit	Fan		Centrifugal fan			
	Standard air flow	H/M/L	(m³/min.)	13.3/10.5/8.0	20.0/15.5/12.0	
	Motor		(W)	150		
	External static pressure	Standard (Upper – Lower)		(Pa)	30 (120 – 30)	
Sound pressure level		H/M/L		(dB•A)	33/29/25	34/30/26
Sound power level		H/M/L		(dB•A)	48/44/40	49/45/41
Outdoor unit						
Refrigerant pipe	Standard length		(m)	7.5		
	Max. total length		(m)	50.0		
	Refrigerant charging amount (Charge-less up to 30m)			40g/m (31m to 50m)		
	Height difference	Outdoor lower	(m)	30	30	
		Outdoor higher	(m)	30	30	
Fan unit	Fan		Propeller fan			
	Standard air flow		(m³/min.)	68	70	
	Motor		(W)	100	100	
Connecting pipe	Gas side	Main	(mm)	15.9		
		Sub	(mm)	12.7		
	Liquid side	Main	(mm)	9.5		
		Sub	(mm)	6.4		
Sound pressure level (*2)		Cooling/Heating	(dB•A)	53/54	54/55	
Sound power level (*2)		Cooling/Heating	(dB•A)	70/71	70/71	

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

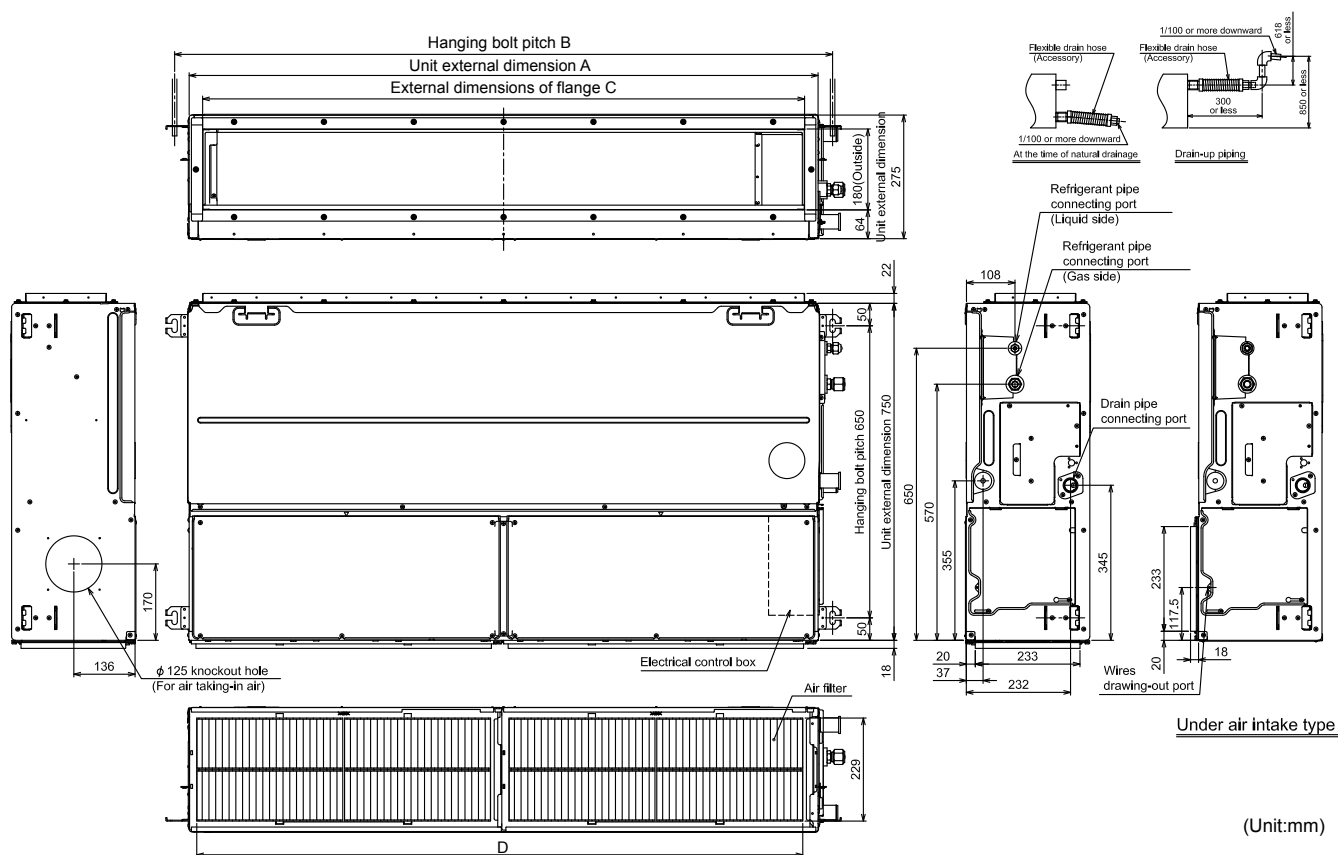
Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-4-2. Dimension

RAV-SM566BTP-E/E1(TR), RAV-SM806BTP-E/E1(TR), RAV-SM1106BTP-E/E1(TR)

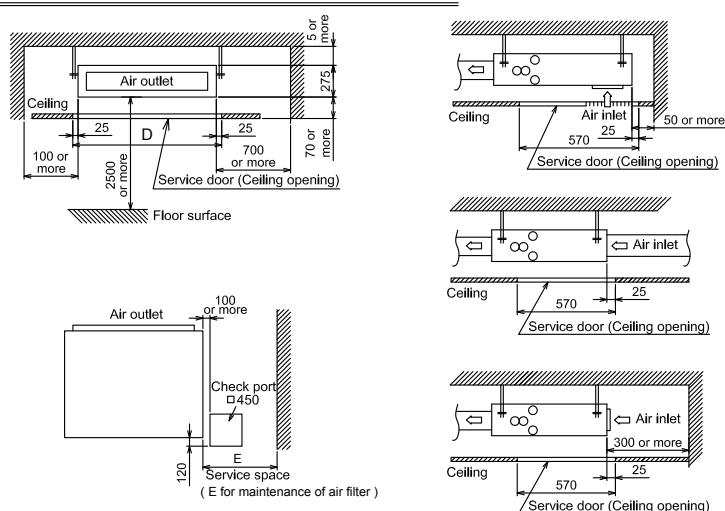
RAV-SM1406BTP-E(TR)



Dimension

	A	B	C	D
RAV-SM566BTP-E / E1(TR)	700	765	640	750
RAV-SM806BTP-E / E1(TR)	1000	1065	940	1050
RAV-SM1106BTP-E / E1(TR)	1400	1465	1340	1450
RAV-SM1406BTP-E(TR)				

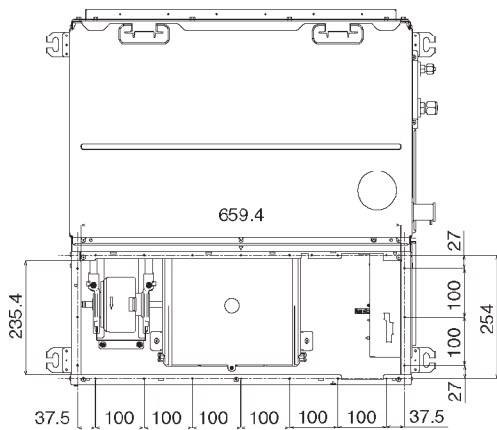
Space required for installation and servicing



	E
RAV-SM566BTP-E / E1(TR)	700
RAV-SM806BTP-E / E1(TR)	500
RAV-SM1106BTP-E / E1(TR)	700
RAV-SM1406BTP-E(TR)	

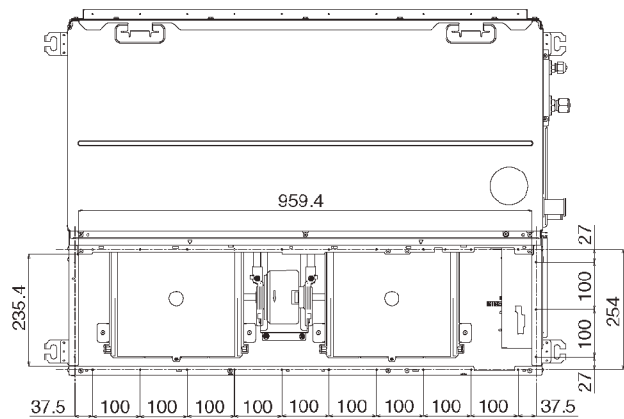
RAV-SM566BTP-E / E1(TR)

<Under air intake>

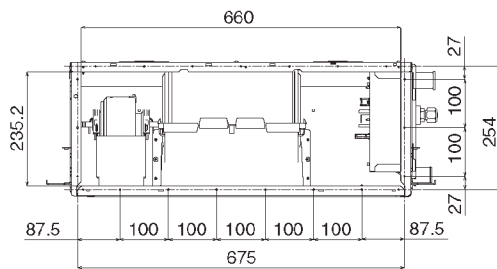


RAV-SM806BTP-E / E1(TR)

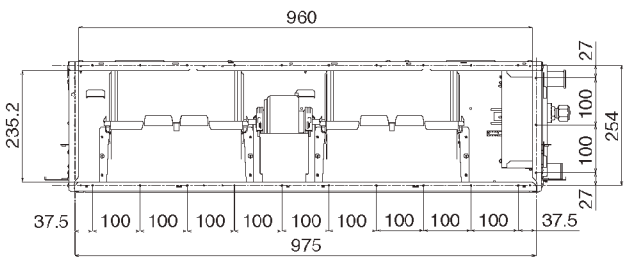
<Under air intake>



<Back air intake>

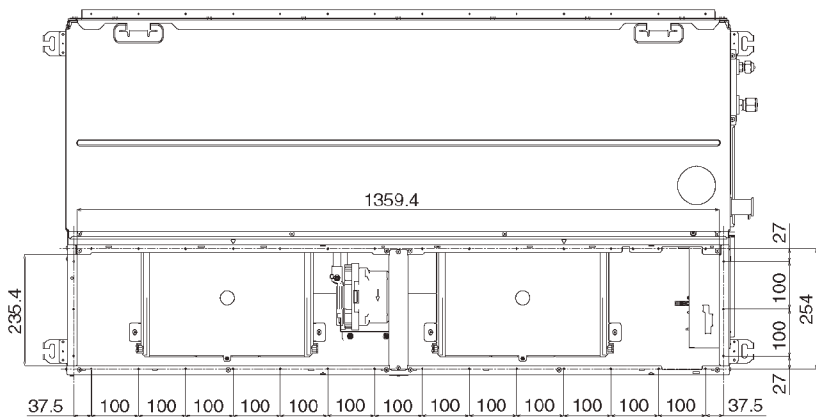


<Back air intake>

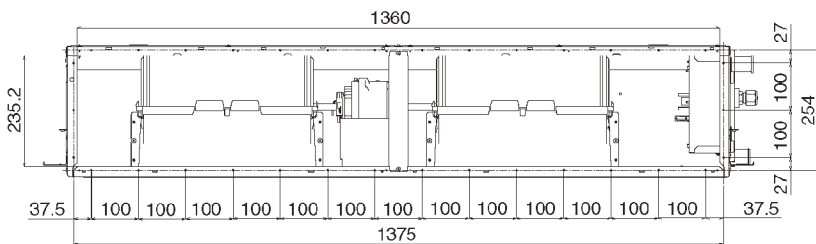


RAV-SM1106BTP-E / E1(TR), RAV-SM1406BTP-E(TR)

<Under air intake>

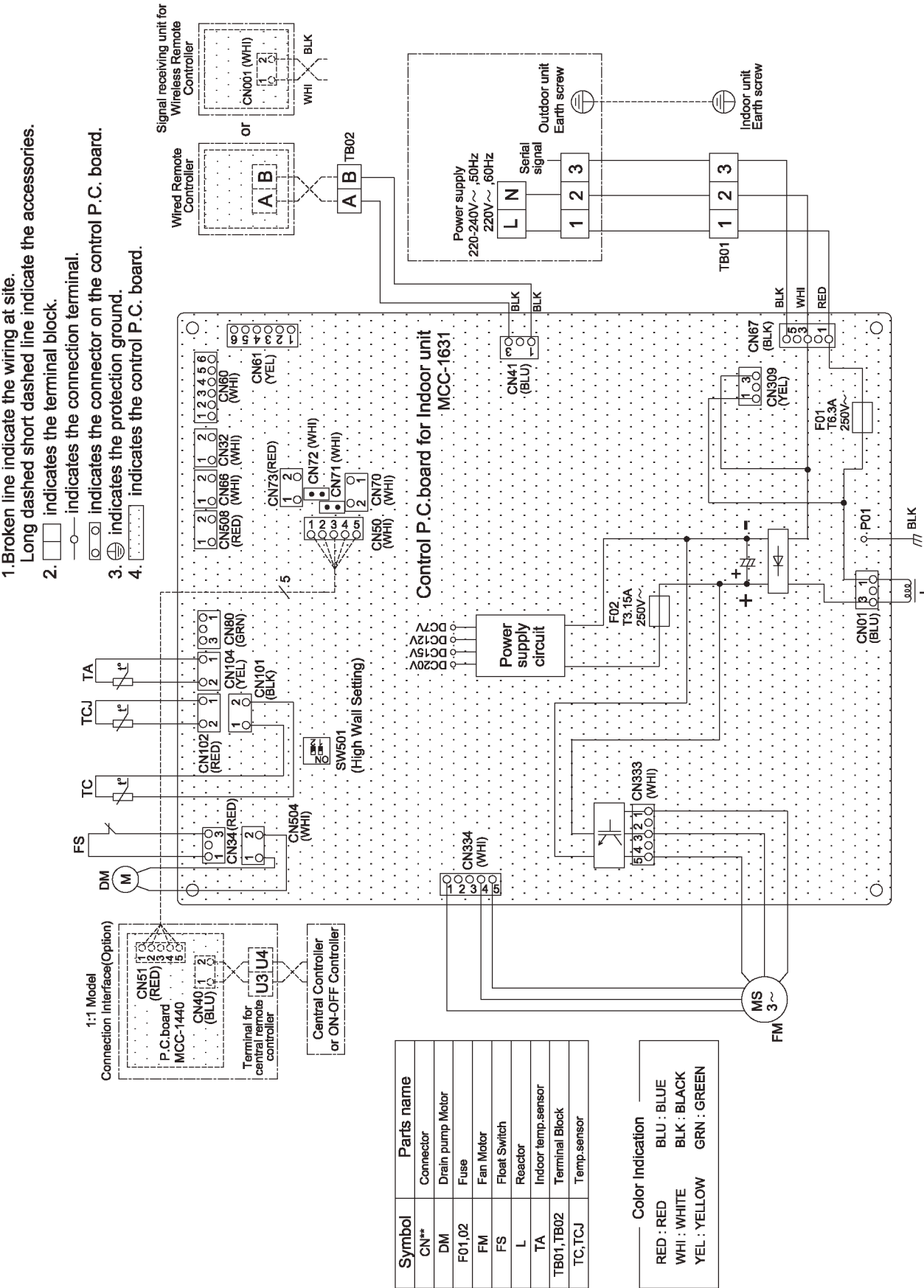


<Back air intake>



2-4-3. Wiring diagrams

RAV-SM566BTP-E / E1(TR), RAV-SM806BTP-E/E1(TR), RAV-SM1106BTP-E / E1(TR),
RAV-SM1406BTP-E(TR)



2-4-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***BTP-E / E1(TR)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.6	4.9	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	5.9	4.5	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.1	5.5	4.2	5.7	4.3	5.8	4.4	6.2	4.7	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.9	5.3	4.0	5.5	4.2	5.6	4.3	5.8	4.4	6.1	4.7	6.4	4.9
	16.0	4.6	3.5	4.8	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.3	5.8	4.4	6.1	4.6	6.4	4.9
	18.0	4.6	3.5	4.8	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.6	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.5	4.2	5.7	4.3	6.0	4.6	6.3	4.8
	21.0	4.5	3.4	4.7	3.6	5.0	3.8	5.2	3.9	5.3	4.1	5.5	4.2	5.6	4.3	6.0	4.5	6.3	4.8
	23.0	4.5	3.4	4.7	3.6	4.9	3.7	5.1	3.9	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.5	6.2	4.7
	25.0	4.4	3.4	4.6	3.5	4.9	3.7	5.0	3.8	5.2	4.0	5.4	4.1	5.5	4.2	5.9	4.4	6.1	4.7
	27.0	4.4	3.3	4.6	3.5	4.8	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.5	4.2	5.8	4.4	6.0	4.6
	29.0	4.3	3.3	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.9	5.2	4.0	5.4	4.1	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.3	5.9	4.5
	33.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.8	5.1	3.9	5.2	4.0	5.5	4.2	5.8	4.4
	35.0	4.1	3.1	4.3	3.3	4.5	3.4	4.7	3.6	4.9	3.7	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.1	4.2	3.2	4.4	3.4	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.1	5.6	4.2
	39.0	3.9	3.0	4.2	3.2	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.7	4.9	3.8	5.2	4.0	5.5	4.2

unit size	outdoor air temp. CDB	door air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
806	10.0	6.3	4.9	6.8	5.3	7.0	5.4	7.2	5.6	7.5	5.8	7.6	6.0	7.8	6.1	8.3	6.4	8.7	6.7
	12.0	6.2	4.8	6.8	5.3	6.9	5.4	7.2	5.6	7.4	5.7	7.6	5.9	7.8	6.1	8.3	6.4	8.7	6.7
	14.0	6.2	4.8	6.7	5.2	6.9	5.3	7.1	5.5	7.4	5.7	7.5	5.9	7.7	6.1	8.2	6.3	8.6	6.6
	16.0	6.1	4.8	6.7	5.2	6.8	5.3	7.1	5.5	7.3	5.7	7.5	5.8	7.7	6.0	8.2	6.3	8.6	6.5
	18.0	6.1	4.7	6.6	5.1	6.8	5.2	7.0	5.4	7.3	5.6	7.5	5.8	7.6	6.0	8.1	6.2	8.5	6.5
	20.0	6.0	4.7	6.6	5.1	6.7	5.2	7.0	5.4	7.2	5.6	7.4	5.7	7.6	5.9	8.0	6.2	8.4	6.4
	21.0	6.0	4.7	6.5	5.1	6.7	5.2	6.9	5.4	7.2	5.6	7.4	5.7	7.5	5.9	8.0	6.2	8.4	6.4
	23.0	5.9	4.6	6.5	5.0	6.6	5.1	6.8	5.3	7.1	5.5	7.3	5.7	7.5	5.8	7.9	6.2	8.3	6.3
	25.0	5.9	4.6	6.4	5.0	6.5	5.1	6.8	5.3	7.0	5.4	7.2	5.6	7.5	5.8	7.8	6.1	8.2	6.2
	27.0	5.9	4.5	6.3	4.9	6.4	5.0	6.7	5.2	6.9	5.4	7.1	5.5	7.4	5.7	7.7	6.0	8.1	6.2
	29.0	5.8	4.5	6.2	4.8	6.3	4.9	6.6	5.1	6.8	5.3	7.0	5.5	7.3	5.6	7.6	6.0	8.0	6.1
	31.0	5.7	4.4	6.1	4.8	6.3	4.9	6.5	5.0	6.7	5.2	6.9	5.4	7.1	5.5	7.5	5.9	7.9	6.0
	33.0	5.6	4.3	6.0	4.7	6.1	4.8	6.4	5.0	6.6	5.1	6.8	5.3	7.0	5.4	7.5	5.8	7.7	6.2
	35.0	5.5	4.3	5.9	4.6	6.0	4.7	6.3	4.9	6.5	5.0	6.7	5.2	6.9	5.4	7.3	5.7	7.6	5.9
	37.0	5.4	4.2	5.9	4.5	5.9	4.6	6.1	4.8	6.4	5.0	6.6	5.1	6.8	5.2	7.2	5.6	7.5	5.8
	39.0	5.3	4.1	5.8	4.4	5.9	4.5	6.0	4.7	6.2	4.8	6.4	5.0	6.6	5.1	7.0	5.4	7.4	5.7

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1106	10.0	9.4	7.9	10.2	8.3	10.4	8.4	10.7	8.7	11.1	8.9	11.4	8.9	11.8	8.9	12.5	8.8	13.0	8.6
	12.0	9.3	7.8	10.1	8.2	10.3	8.3	10.7	8.6	11.0	8.8	11.4	8.8	11.7	8.8	12.4	8.7	12.9	8.5
	14.0	9.3	7.8	10.0	8.2	10.2	8.3	10.6	8.6	11.0	8.8	11.3	8.8	11.6	8.8	12.3	8.7	12.9	8.5
	16.0	9.2	7.7	10.0	8.1	10.2	8.2	10.5	8.5	10.9	8.7	11.2	8.7	11.5	8.7	12.2	8.6	12.8	8.4
	18.0	9.1	7.7	9.9	8.1	10.1	8.2	10.4	8.4	10.8	8.7	11.1	8.6	11.4	8.6	12.1	8.5	12.7	8.4
	20.0	9.1	7.6	9.8	8.0	10.0	8.1	10.4	8.4	10.7	8.6	11.0	8.6	11.3	8.6	12.0	8.5	12.6	8.3
	21.0	9.0	7.6	9.8	8.0	10.0	8.1	10.3	8.3	10.7	8.6	11.0	8.5	11.3	8.5	12.0	8.4	12.5	8.3
	23.0	8.9	7.5	9.7	7.9	9.9	8.0	10.2	8.3	10.6	8.5	10.8	8.5	11.2	8.4	11.8	8.4	12.4	8.2
	25.0	8.8	7.4	9.6	7.8	9.8	7.9	10.1	8.2	10.4	8.4	10.8	8.4	11.1	8.4	11.7	8.3	12.2	8.1
	27.0	8.7	7.4	9.4	7.7	9.6	7.8	10.0	8.1	10.3	8.3	10.6	8.3	10.9	8.3	11.6	8.2	12.1	8.0
	29.0	8.6	7.3	9.3	7.6	9.5	7.7	9.8	8.0	10.2	8.2	10.5	8.2	10.8	8.1	11.4	8.1	11.9	7.9
	31.0	8.5	7.2	9.2	7.5	9.4	7.6	9.7	7.9	10.0	8.1	10.3	8.0	10.6	8.0	11.3	8.0	11.8	7.8
	33.0	8.4	7.1	9.0	7.4	9.2	7.5	9.6	7.7	9.9	7.9	10.2	7.9	10.5	7.9	11.1	7.8	11.6	7.7
	35.0	8.2	6.9	8.9	7.3	9.1	7.4	9.4	7.6	9.7	7.8	10.0	7.8	10.3	7.8	10.9	7.7	11.4	7.6
	37.0	8.1	6.8	8.7	7.1	8.9	7.2	9.2	7.5	9.5	7.7	9.8	7.7	10.1	7.6	10.7	7.6	11.2	7.4
	39.0	7.9	6.7	8.5	7.0	8.7	7.1	9.0	7.3	9.3	7.5	9.6	7.5	9.9	7.5	10.5	7.4	10.9	7.3

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB		15.0CWB		16.0CWB		17.0CWB		18.0CWB		19.0CWB		20.0CWB		22.0CWB		24.0CWB	
		20.0CDB		21.5CDB		23.0CDB		24.5CDB		26.0CDB		27.0CDB		28.0CDB		30.0CDB		32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1406	10.0	11.3	9.1	12.3	9.6	12.6	9.7	13.0	10.1	13.5	10.3	13.8	10.2	14.2	10.2	15.1	10.1	15.8	10.0
	12.0	11.3	9.1	12.2	9.5	12.5	9.7	12.9	10.0	13.4	10.2	13.7	10.2	14.1	10.2	15.0	10.1	15.7	9.9
	14.0	11.2	9.0	12.1	9.5	12.4	9.6	12.9	10.0	13.3	10.1	13.6	10.1	14.0	10.1	14.9	10.1	15.6	9.9
	16.0	11.1	8.9	12.1	9.4	12.3	9.5	12.8	9.9	13.2	10.1	13.6	10.1	13.9	10.1	14.8	10.0	15.5	9.8
	18.0	11.0	8.9	12.0	9.3	12.2	9.5	12.7	9.8	13.1	10.1	13.5	10.1	13.8	10.0	14.6	9.9	15.3	9.7
	20.0	10.9	8.8	11.9	9.2	12.1	9.4	12.5	9.7	13.0	10.0	13.4	10.0	13.7	10.0	14.5	9.8	15.2	9.6
	21.0	10.9	8.7	11.8	9.2	12.0	9.3	12.5	9.7	12.9	9.9	13.3	9.9	13.6	9.9	14.5	9.8	15.1	9.6
	23.0	10.8	8.6	11.7	9.1	11.9	9.2	12.4	9.6	12.8	9.8	13.2	9.8	13.6	9.8	14.4	9.7	15.0	9.5
	25.0	10.6	8.5	11.5	9.0	11.8	9.1	12.2	9.5	12.7	9.7	13.0	9.7	13.4	9.7	14.1	9.6	14.8	9.4
	27.0	10.6	8.4	11.4	8.9	11.6	9.0	12.1	9.3	12.5	9.6	12.9	9.6	13.3	9.6	14.0	9.5	14.6	9.3
	29.0	10.5	8.3	1.5	8.8	11.5	8.9	11.9	9.2	12.3	9.5	12.7	9.5	13.1	9.4	13.8	9.3	14.4	9.1
	31.0	10.3	8.2	11.1	8.6	11.3	8.8	11.7	9.1	12.1	9.3	12.5	9.3	12.9	9.3	13.6	9.2	14.2	8.6
	33.0	10.1	8.1	10.9	8.5	11.1	8.6	11.5	8.9	11.9	9.2	12.3	9.2	12.7	9.1	13.4	9.0	14.0	8.8
	35.0	10.0	7.9	10.7	8.3	10.9	8.5	11.3	8.8	11.7	9.0	12.1	9.0	12.5	9.0	13.2	8.9	13.7	8.7
	37.0	9.8	7.9	10.6	8.2	10.7	8.3	11.1	8.6	11.5	8.8	11.9	8.8	12.2	8.8	13.0	8.7	13.6	8.5
39.0	9.6	7.7	10.4	8.0	10.6	8.1	10.9	8.4	11.3	8.7	11.6	8.6	12.0	8.6	12.7	8.5	13.3	8.3	

2-4-4. Sensible capacity table

Combination

Indoor unit : RAV-SM1106BTP-E / E1(TR)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3140	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3420	2730	2220	1790	1430	1110	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3140	2510	2040	1650	1320	1020	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2850	2270	1850	1490	1190	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2590	2070	1680	1360	1090	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2340	1870	1520	1230	980	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

Combination

Indoor unit : RAV-SM1406BTP-E(TR)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404ATP-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3550

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3900	3280	2730	2240	1810	1440	1110	820	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3710	3120	2600	2140	1720	1370	1050	780	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3550	2990	2490	2050	1650	1310	1010	750	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	3050	2560	2130	1760	1420	1120	860	640	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3000	2530	2100	1730	1400	1110	850	640	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2980	2500	2080	1710	1380	1100	840	630	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2900	2440	2030	1670	1350	1070	820	610	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2880	2420	2010	1660	1340	1060	820	610	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2770	2330	1940	1600	1290	1020	790	590	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2470	2080	1730	1430	1150	910	700	520	420	420

Combination

Indoor unit : RAV-SM566BTP-E / E1(TR) x2 (Twin)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3140	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3420	2730	2220	1790	1430	1110	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3140	2510	2040	1650	1320	1020	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2850	2270	1850	1490	1190	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2590	2070	1680	1360	1090	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2340	1870	1520	1230	980	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

Combination

Indoor unit : RAV-SM806BTP-E / E1(TR) x 2 (Twin)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404ATP-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3550

Q: Capacity in W
W: Power Consumption in W

Cooling

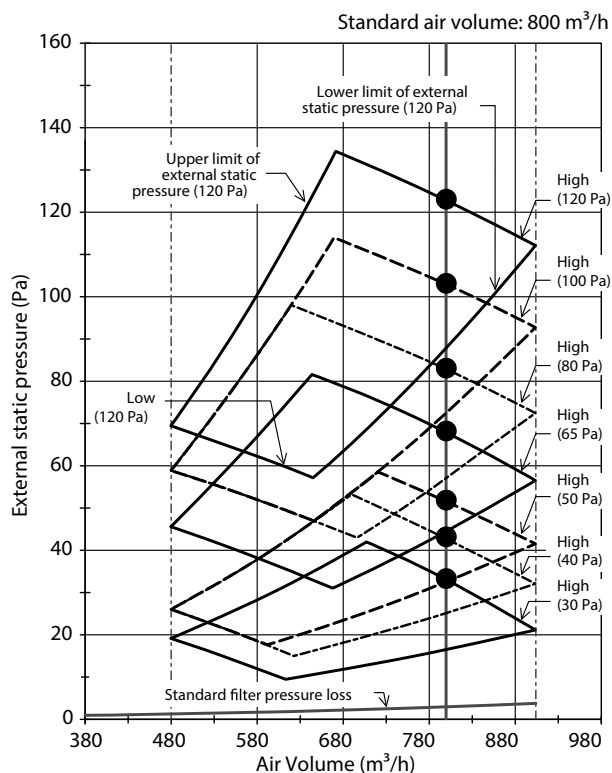
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

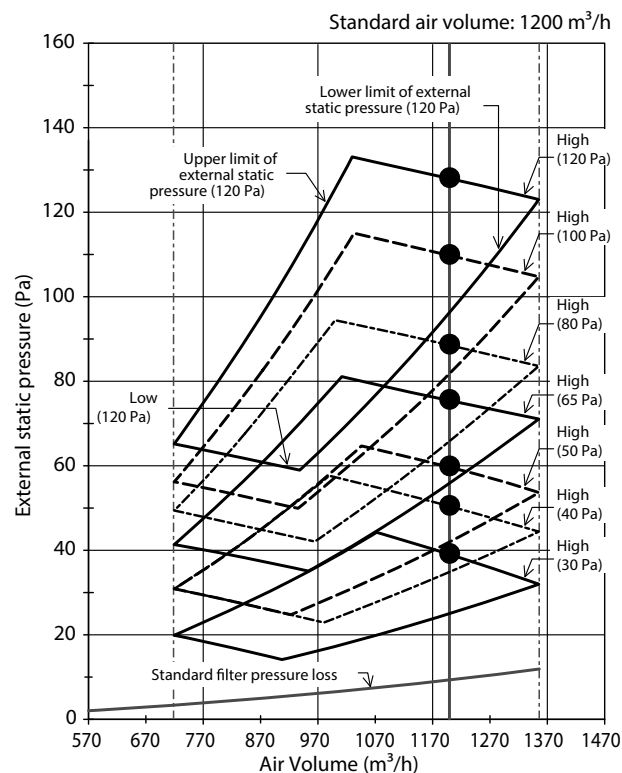
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3900	3280	2730	2240	1810	1440	1110	820	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3710	3120	2600	2140	1720	1370	1050	780	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3550	2990	2490	2050	1650	1310	1010	750	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	3050	2560	2130	1760	1420	1120	860	640	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3000	2530	2100	1730	1400	1110	850	640	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2980	2500	2080	1710	1380	1100	840	630	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2900	2440	2030	1670	1350	1070	820	610	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2880	2420	2010	1660	1340	1060	820	610	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2770	2330	1940	1600	1290	1020	790	590	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2470	2080	1730	1430	1150	910	700	520	420	420

2-4-6. Fan static characteristics

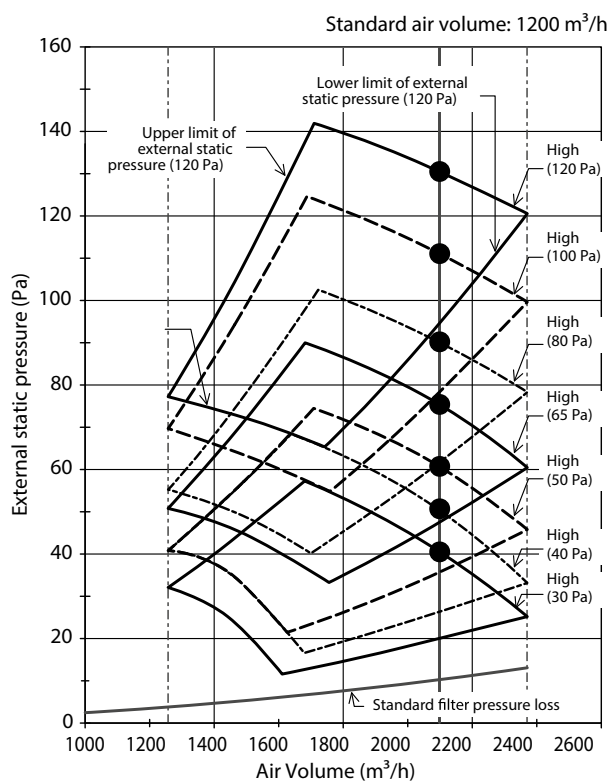
RAV-SM566BTP-E / E1(TR)



RAV-SM806BTP-E / E1(TR)

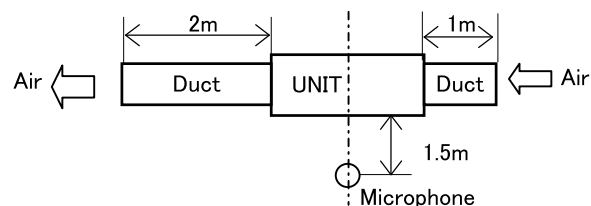


RAV-SM1106BTP-E / E1(TR) , RAV-SM1406BTP-E(TR)



2-4-7. Sound characteristics (NC curve)

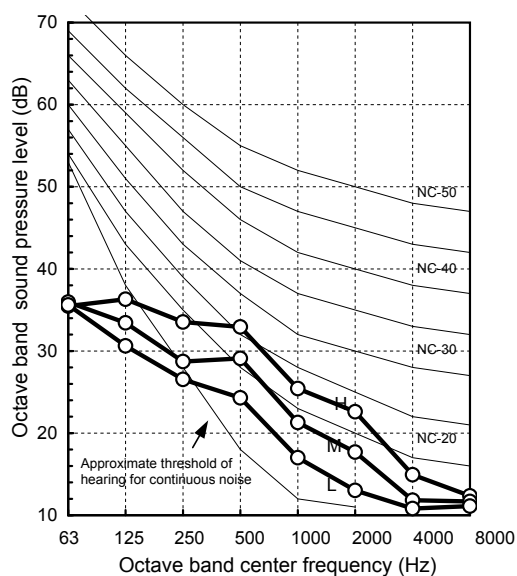
RAV-SM566BTP-E / E1(TR)



Measuring location

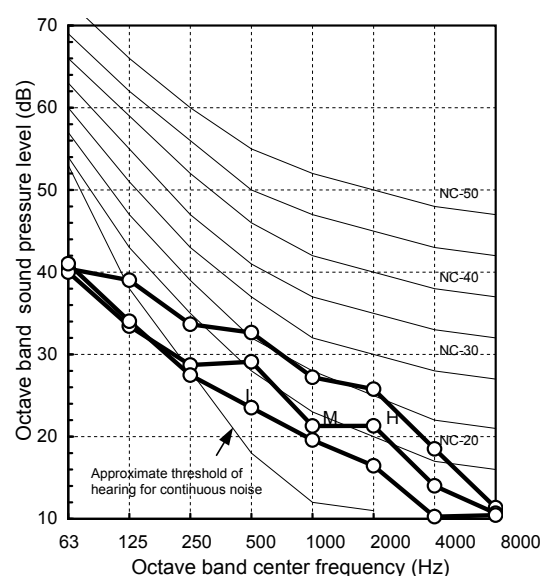
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	33	29	25



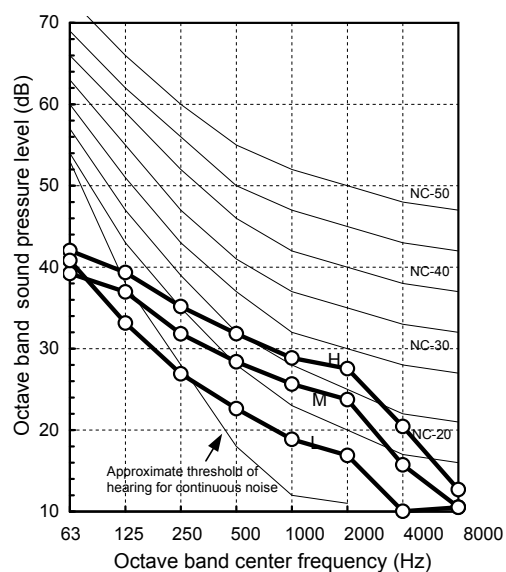
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



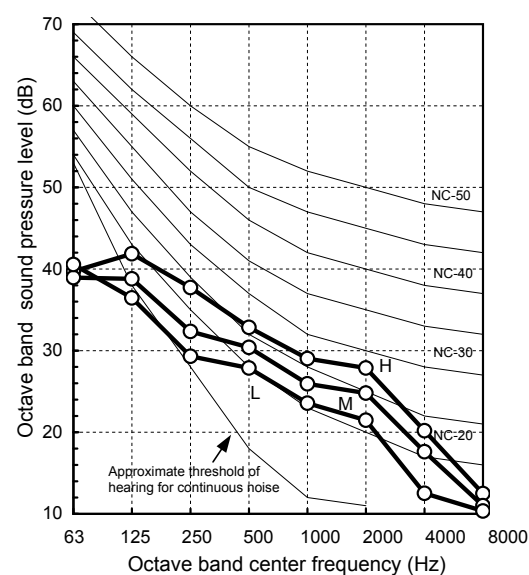
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	31	26



External static pressure 65Pa

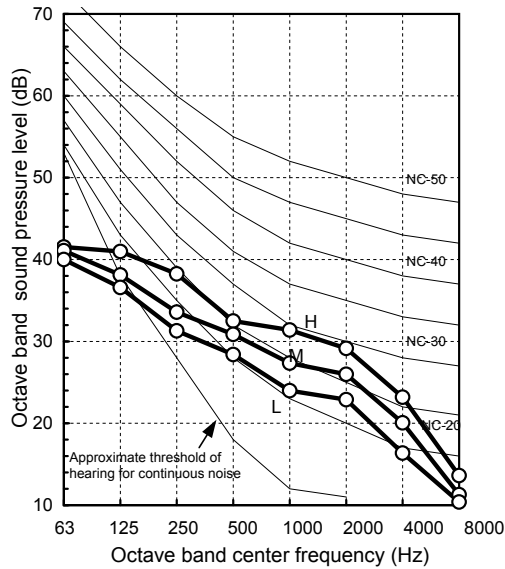
FAN tap	H	M	L
Sound pressure level (dB(A))	36	32	29



RAV-SM566BTP-E / E1(TR)

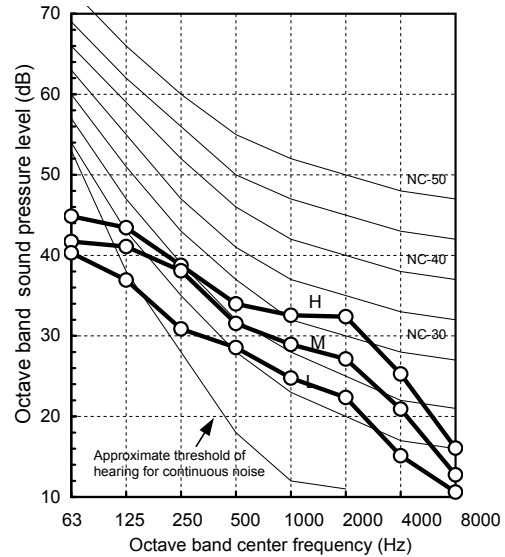
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	37	33	31



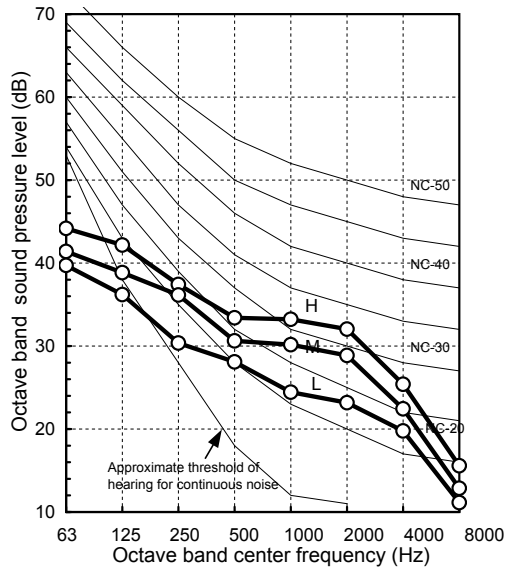
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	35	31

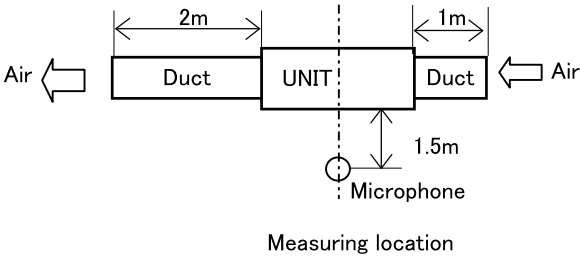


External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	31

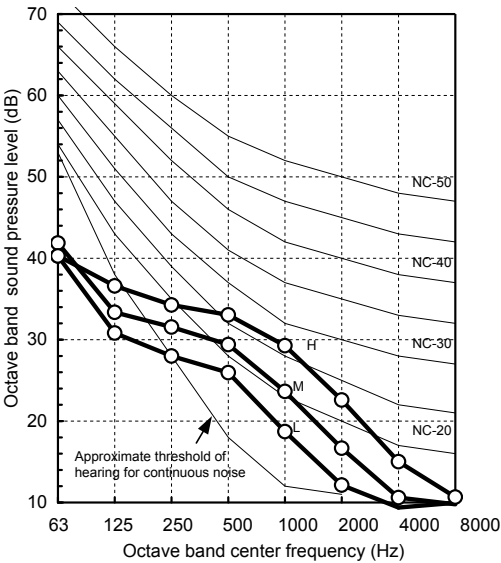


RAV-SM806BTP-E / E1(TR)



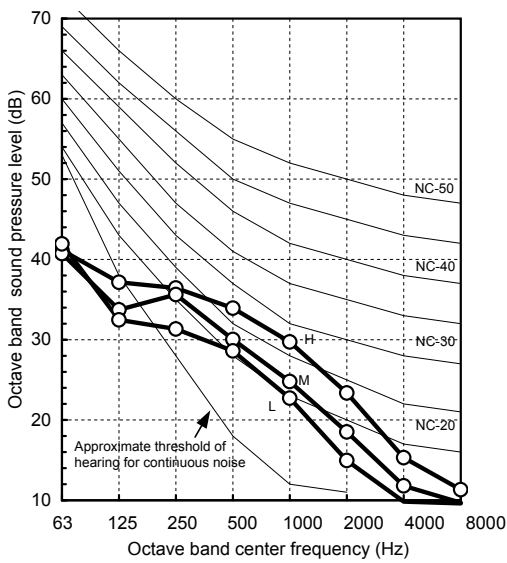
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



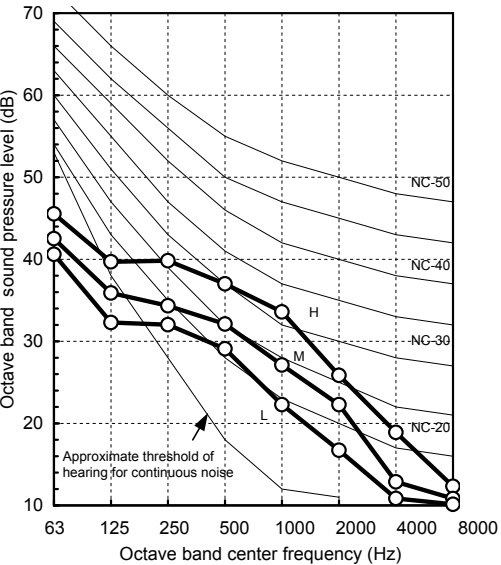
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	32	29



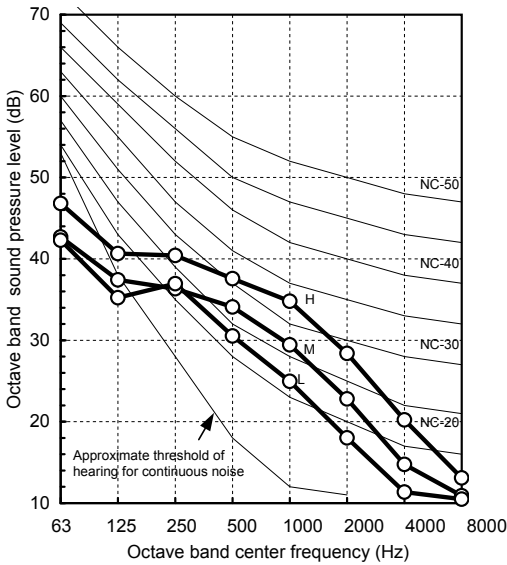
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	33	29



External static pressure 65Pa

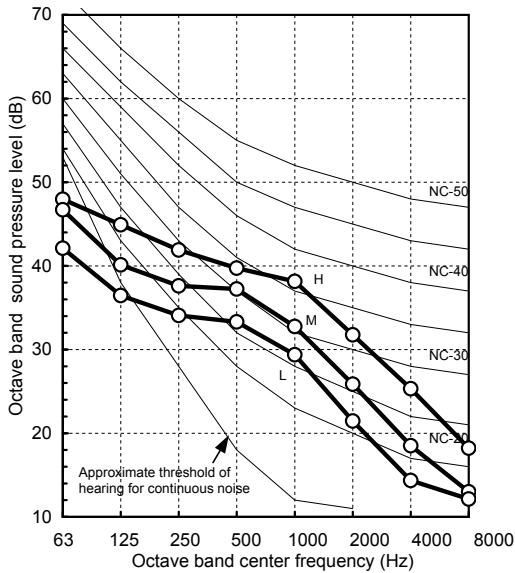
FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	32



RAV-SM806BTP-E / E1(TR)

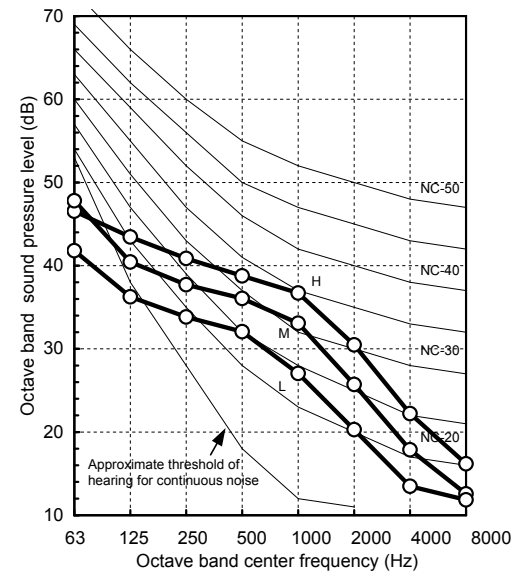
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	38	34



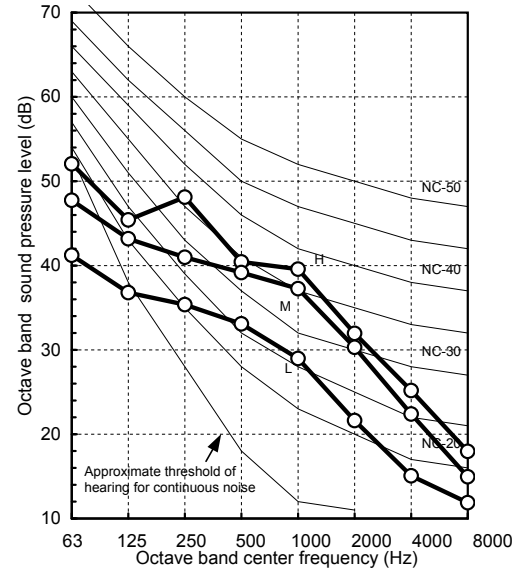
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	39	33

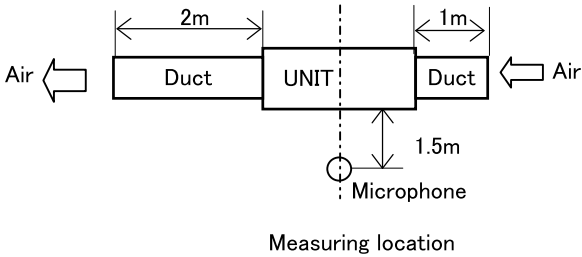


External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	41	34

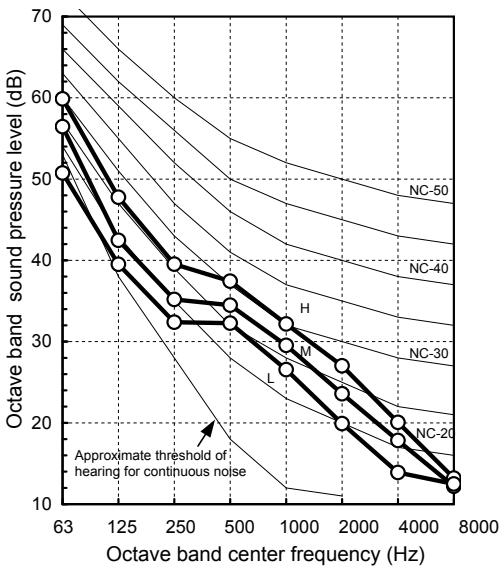


RAV-SM1106BTP-E / E1(TR), RAV-SM1406BTP-E(TR)



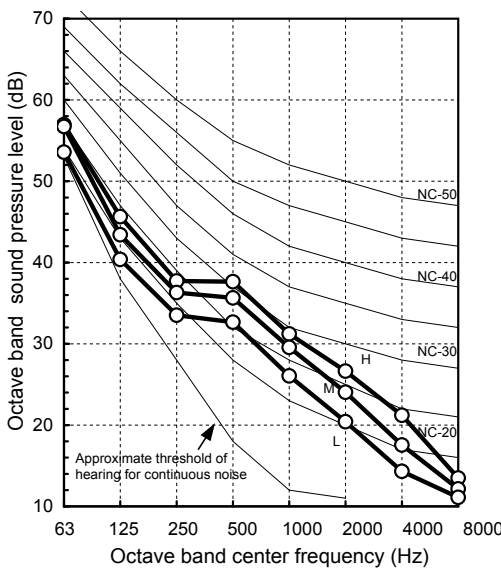
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



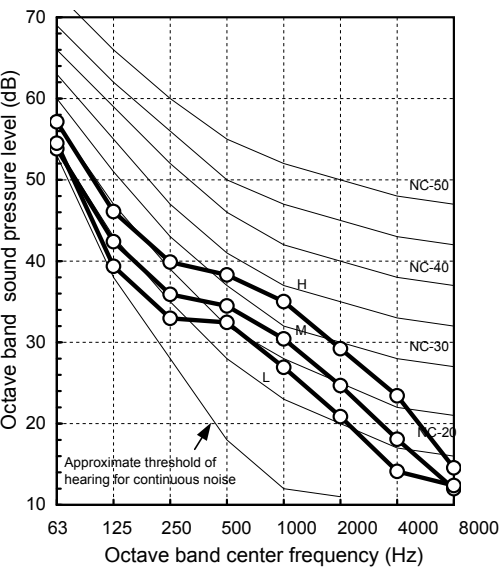
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



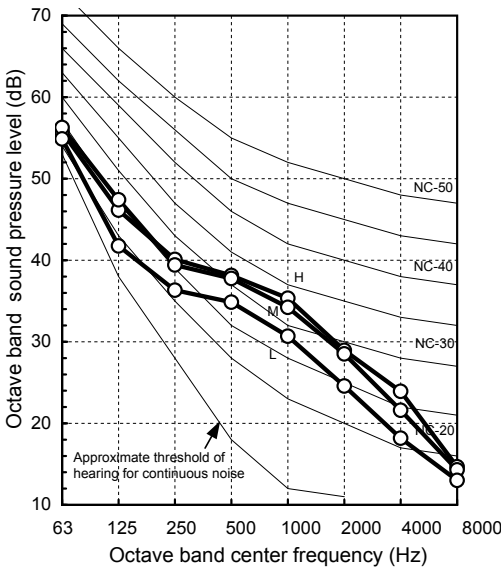
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	40	36	33



External static pressure 65Pa

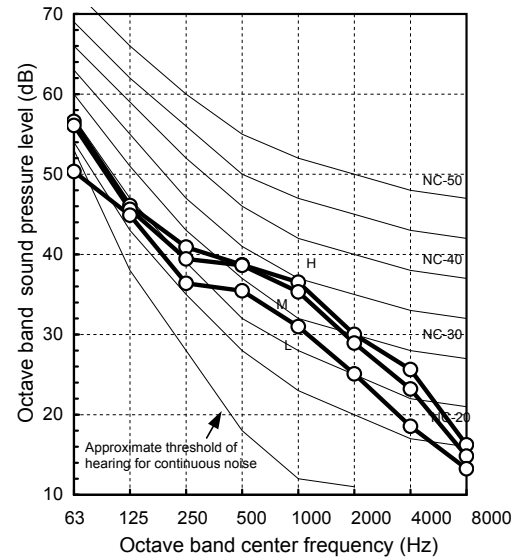
FAN tap	H	M	L
Sound pressure level (dB(A))	41	39	36



RAV-SM1106BTP-E / E1(TR), RAV-SM1406BTP-E(TR)

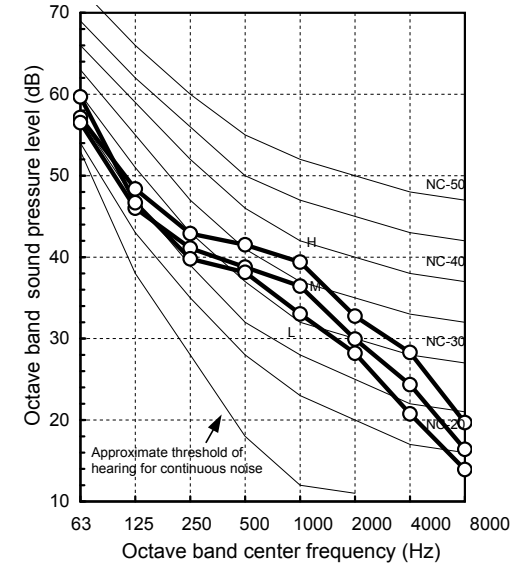
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	40	36



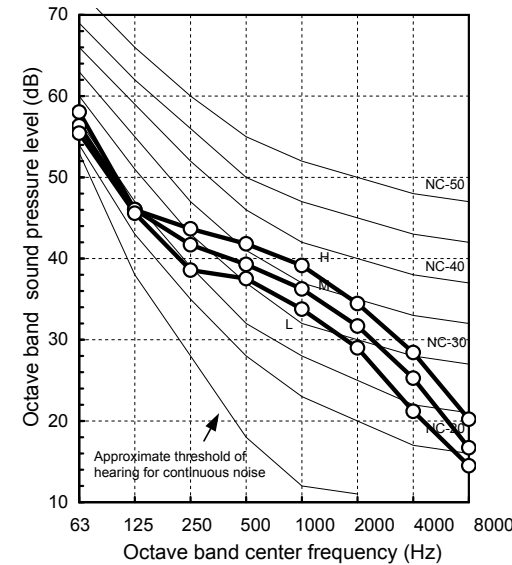
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	43	41	39



External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	42	39



2-5. Slim Duct Type

2-5-1. Specifications

2-5-2. Dimension

2-5-3. Wiring diagrams

2-5-4. Sensible capacity table

2-5-5. Part load performance

2-5-6. Fan static characteristics

2-5-7. Sound characteristics (NC curve)

2-5-1. Specifications

<Twin type>

Model	Indoor unit 1		RAV-SM	564SDT-E
	Indoor unit 2		RAV-SM	564SDT-E
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR
Cooling capacity (*1)			(kW)	10.0 (3.0 - 11.2)
Heating capacity (*1)			(kW)	11.2 (3.0 - 12.5)
Power supply			1 phase 220 – 240V/50Hz, 1 phase 220V/60Hz	
Electrical characteristics	Cooling	Running current	(A)	5.15 – 4.70
		Power consumption	(kW)	3.18
		Power factor	(%)	94
		EER		3.14
	Heating	Running current	(A)	4.85 – 4.45
		Power consumption	(kW)	2.99
		Power factor	(%)	94
		COP		3.75
	Maximum current		(A)	21.0
Indoor unit				
Fan unit	Fan		Centrifugal	
	Standard air flow	H/M/L	(m³/min.)	13.0/11.3/9.7
	Motor		(W)	60
External static pressure	Standard (Upper - Lower)		4 (24 - 0)	
Sound pressure level	Under air inlet	H/M/L	(dB•A)	39/36/33
	Back air inlet	H/M/L	(dB•A)	30/28/26
Sound power level	Under air inlet	H/M/L	(dB•A)	54/51/48
	Back air inlet	H/M/L	(dB•A)	45/43/41
Outdoor unit				
Power supply			1 phase 230V (220 – 240V) 50Hz	
Refrigerant pipe	Standard length		(m)	7.5
	Min. length		(m)	5
	Max. total length		(m)	50
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)	
	Height difference	Outdoor lower	(m)	30
		Outdoor higher	(m)	30
Fan unit	Fan		Propeller fan	
	Standard air flow		(m³/min.)	50
	Motor		(W)	63
Connecting pipe	Gas side	Main	(mm)	15.9
		Sub	(mm)	12.7
	Liquid side	Main	(mm)	9.5
		Sub	(mm)	6.4
Sound pressure level (*2)		Cooling/Heating	(dB•A)	48/49
Sound power level (*2)		Cooling/Heating	(dB•A)	64/65

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

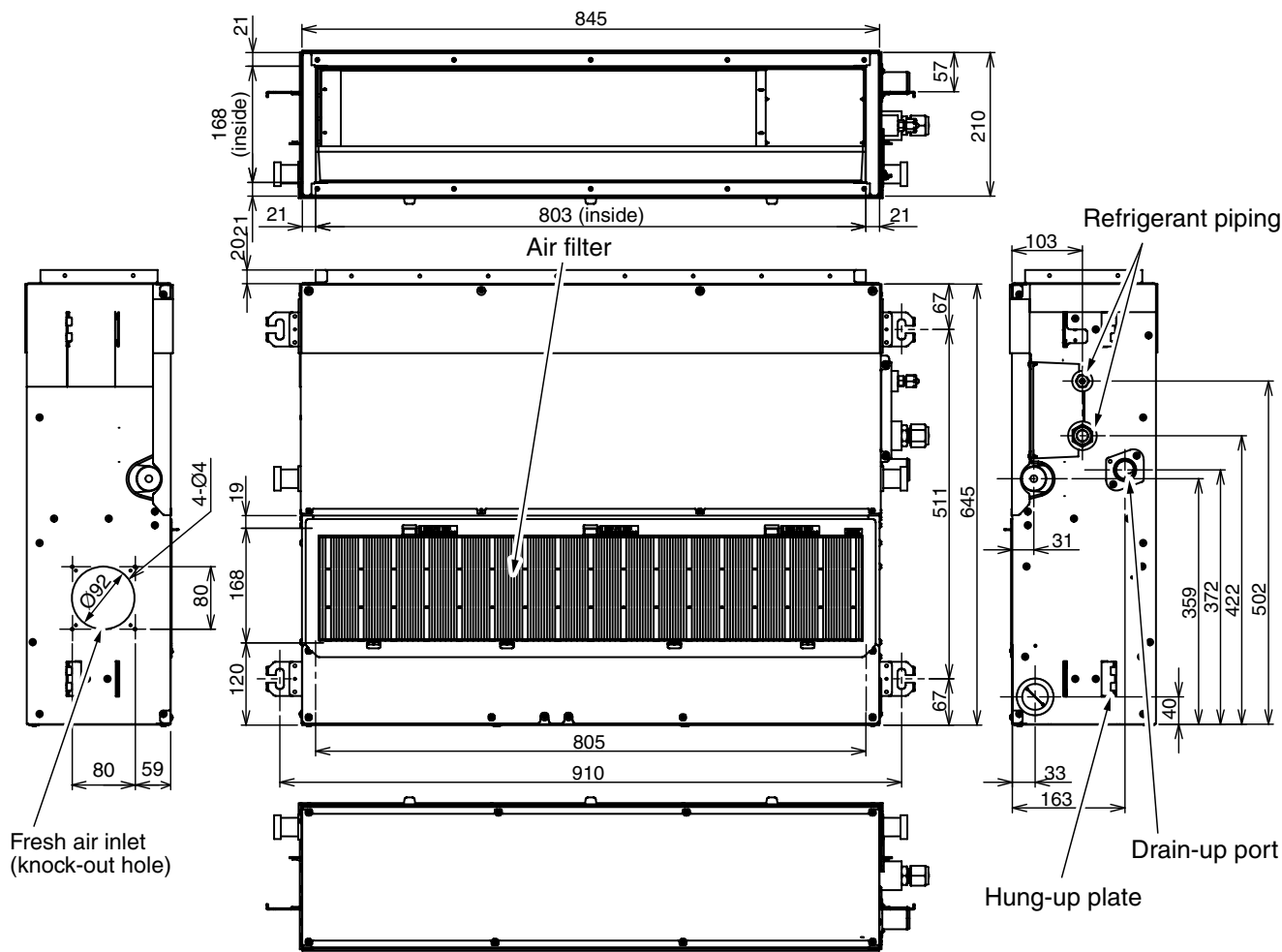
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

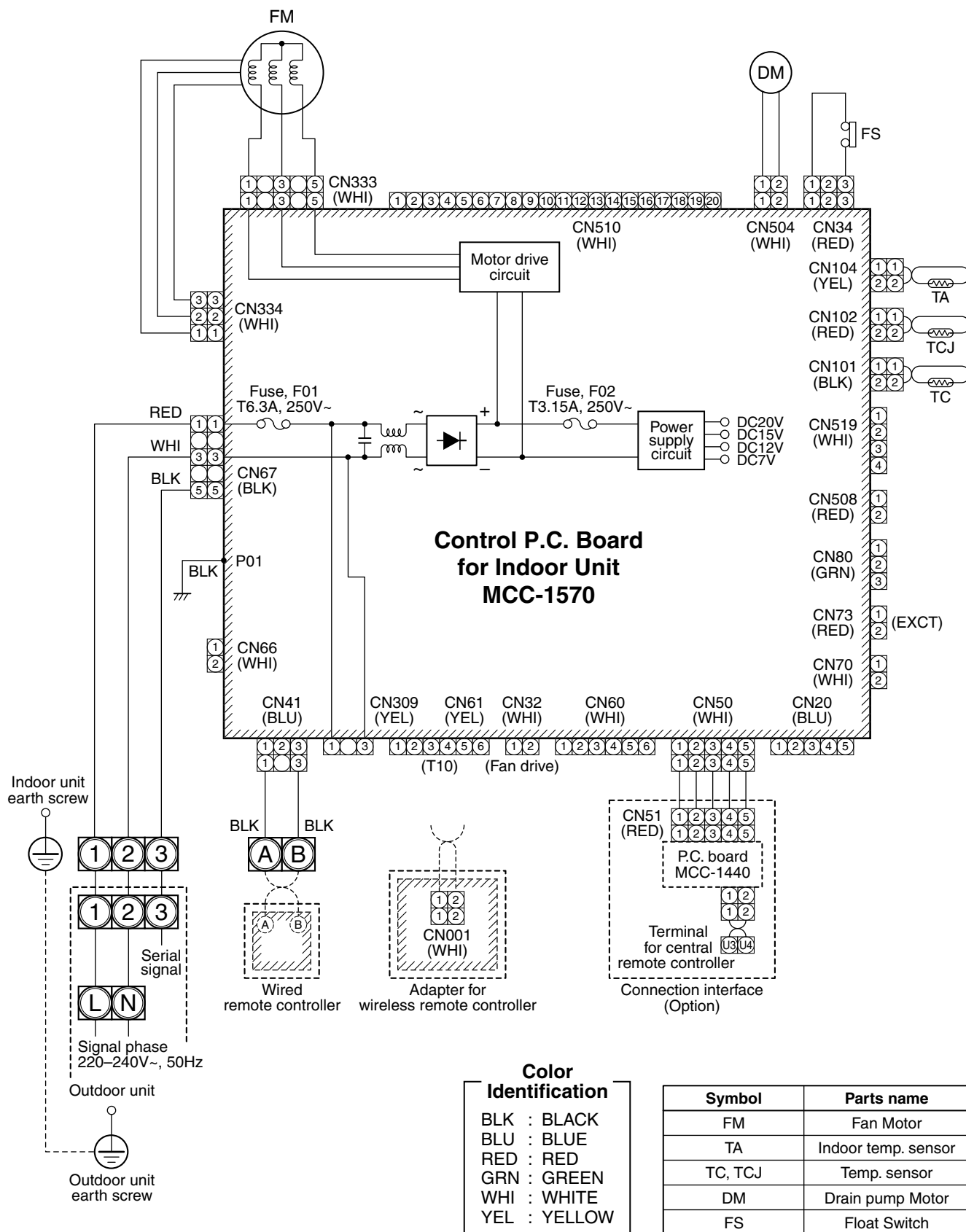
2-5-2. Dimension

RAV-SM564SDT-E



2-5-3. Wiring diagrams

RAV-SM564SDT-E



2-5-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***SDT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
564	10.0	4.7	3.3	4.9	3.5	5.2	3.6	5.4	3.8	5.6	3.9	5.7	4.0	5.9	4.1	6.2	4.4	6.5	4.6
	12.0	4.7	3.3	4.9	3.4	5.2	3.6	5.3	3.7	5.5	3.9	5.7	4.0	5.8	4.1	6.2	4.3	6.5	4.5
	14.0	4.6	3.2	4.9	3.4	5.1	3.6	5.3	3.7	5.5	3.8	5.6	4.0	5.8	4.1	6.1	4.3	6.4	4.5
	16.0	4.6	3.2	4.8	3.4	5.1	3.6	5.3	3.7	5.4	3.8	5.6	3.9	5.8	4.0	6.1	4.3	6.4	4.5
	18.0	4.6	3.2	4.8	3.4	5.0	3.5	5.2	3.7	5.4	3.8	5.6	3.9	5.7	4.0	6.1	4.2	6.3	4.4
	20.0	4.5	3.2	4.8	3.3	5.0	3.5	5.2	3.6	5.4	3.8	5.5	3.9	5.7	4.0	6.0	4.2	6.3	4.4
	21.0	4.5	3.2	4.7	3.3	5.0	3.5	5.2	3.6	5.3	3.7	5.5	3.8	5.6	4.0	6.0	4.2	6.3	4.4
	23.0	4.5	3.1	4.7	3.3	4.9	3.5	5.1	3.6	5.3	3.7	5.4	3.8	5.6	3.9	5.9	4.1	6.2	4.3
	25.0	4.4	3.1	4.6	3.3	4.9	3.4	5.0	3.5	5.2	3.7	5.4	3.8	5.5	3.9	5.9	4.1	6.1	4.3
	27.0	4.4	3.1	4.6	3.2	4.8	3.4	5.0	3.5	5.2	3.6	5.3	3.7	5.5	3.8	5.8	4.0	6.0	4.2
	29.0	4.3	3.0	4.5	3.2	4.8	3.3	4.9	3.4	5.1	3.6	5.2	3.7	5.4	3.8	5.7	4.0	6.0	4.2
	31.0	4.2	3.0	4.5	3.1	4.7	3.3	4.9	3.4	5.0	3.5	5.2	3.6	5.3	3.7	5.6	3.9	5.9	4.1
	33.0	4.2	2.9	4.4	3.1	4.6	3.2	4.8	3.3	4.9	3.5	5.1	3.6	5.2	3.7	5.5	3.9	5.8	4.1
	35.0	4.1	2.9	4.3	3.0	4.5	3.2	4.7	3.3	4.9	3.4	5.0	3.5	5.1	3.6	5.4	3.8	5.7	4.0
	37.0	4.0	2.8	4.2	3.0	4.4	3.1	4.6	3.2	4.8	3.3	4.9	3.4	5.0	3.5	5.3	3.7	5.6	3.9
	39.0	3.9	2.8	4.2	2.9	4.4	3.1	4.5	3.2	4.7	3.3	4.8	3.4	4.9	3.5	5.2	3.7	5.5	3.8

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-5-5. Part load performance

Combination

Indoor unit : RAV-SM564SDT-E x 2 (Twin)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3180	11200	2990

Q: Capacity in W
W: Power Consumption in W

Cooling

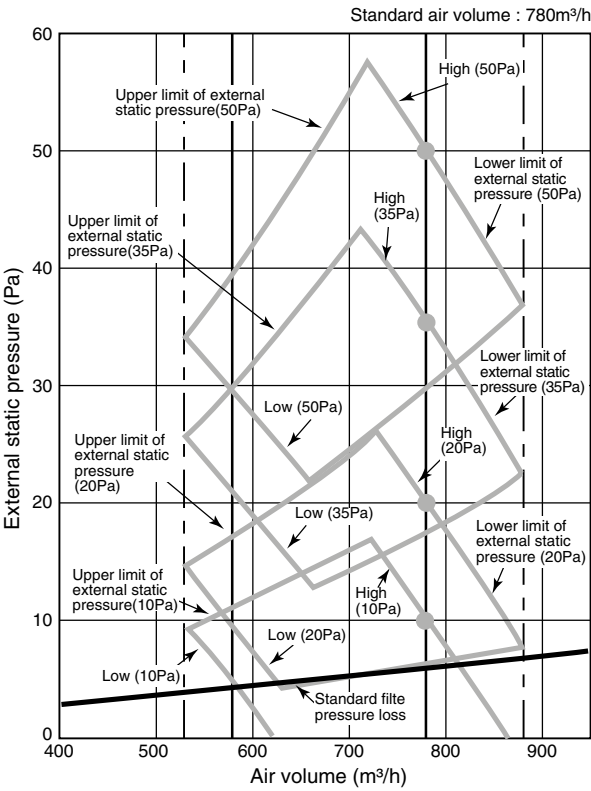
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3460	2760	2240	1810	1450	1130	870	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3180	2540	2060	1670	1330	1040	800	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2880	2300	1870	1510	1210	940	730	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2620	2090	1700	1380	1100	860	660	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2370	1890	1540	1240	990	770	600	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4020	3590	3590
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3660	3260	3260
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2530	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2370	2110	2110
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

2-5-6. Fan static characteristics

RAV-SM564SDT-E

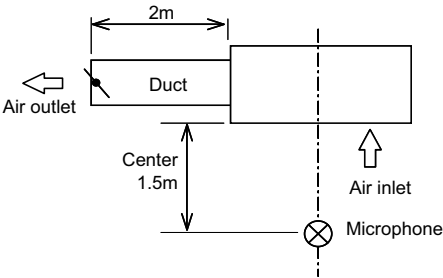


2-5-7. Sound characteristics (NC curve)

RAV-SM564SDT-E

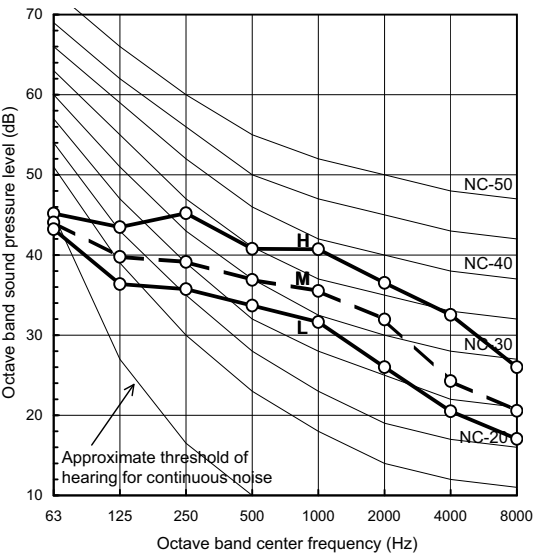
[Measuring location]

Under air intake



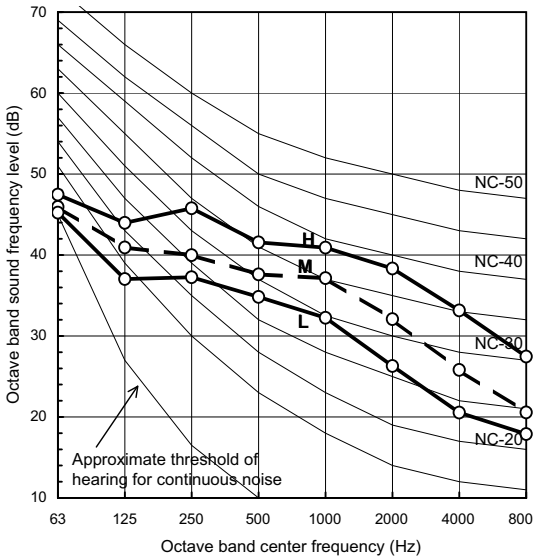
[External static pressure 10Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	45	40	36



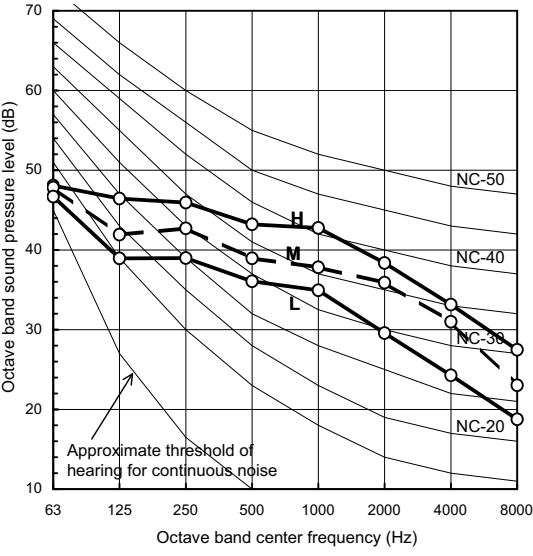
[External static pressure 20Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	46	41	37



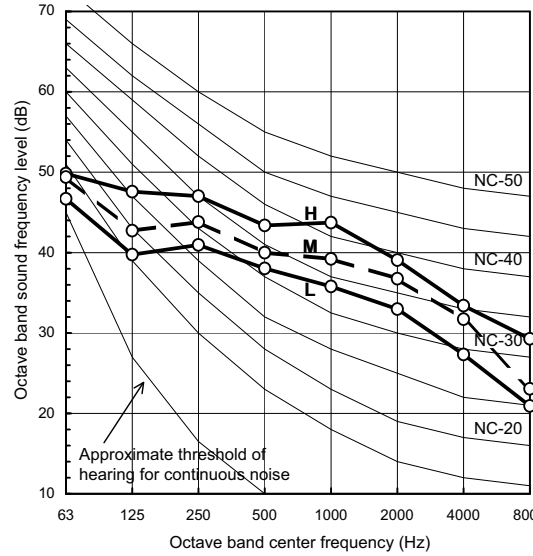
[External static pressure 35Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	47	43	39



[External static pressure 50Pa]

Fan tap	H	M	L
Sound pressure level (dB(A))	48	44	41



2-7. Ceiling Type (8 series)

2-7-1. Specifications

2-7-2. Dimension

2-7-3. Wiring diagrams

2-7-4. Sensible capacity table

2-7-5. Part load performance

2-7-6. Air throw distance chart

2-7-7. Sound characteristics (NC curve)

2-7-1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	1108CTP-E(TR)		1408CTP-E(TR)	
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR		1404AT8(J)P-E / 1404AT8P-TR	
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)		12.1 (3.0 – 13.2)	
Heating capacity (*1)			(kW)	11.2 (3.0 – 12.5)		12.8 (3.0 – 16.0)	
Power supply				3 phase 380 – 415V 50Hz, 3 phase 380V/60Hz			
Electrical characteristics	Cooling	Running current	(A)	5.05 – 4.60		7.15 – 6.55	
		Power consumption	(kW)	3.11		4.42	
		Power factor	(%)	94		94	
		EER		3.22		2.74	
	Heating	Running current	(A)	4.75 – 4.35		5.55 – 5.10	
		Power consumption	(kW)	2.94		3.43	
		Power factor	(%)	94		94	
		COP		3.81		3.73	
Maximum current		(A)	21.6		22.8		
Outer dimension	Main unit	Height	(mm)	235			
		Width	(mm)	1586			
		Depth	(mm)	690			
Total weight	Main unit		(kg)	37			
Heat exchanger				Finned tube			
Fan unit	Fan			Centrifugal fan			
	Standard air flow	H/M/L	(m³/min.)	31.0/22.5/17.0		34.0/25.5/20.0	
	Motor		(W)	139			
Air filter				Long life filter			
Controller	Attached remote controller			None			
Sound pressure level (*2)		H/M/L	(dB•A)	44/38/32		46/41/35	
Sound power level (*2)		H/M/L	(dB•A)	59/53/47		61/56/50	
Connecting pipe		Gas side	(mm)	15.9			
		Liquid side	(mm)	9.5			
		Drain port	(mm)	VP20			

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

<Twin type>

Model	Indoor unit 1		RAV-SM	568CTP-E(TR)	808CTP-E(TR)
	Indoor unit 2		RAV-SM	568CTP-E(TR)	808CTP-E(TR)
	Outdoor unit		RAV-SM	1104AT8P(J)P-E / 1104AT8P-TR	1404AT8(J)P-E / 1404AT8P-TR
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)	12.1 (3.0 – 13.2)
Heating capacity (*1)			(kW)	11.2 (3.0 – 12.5)	12.8 (3.0 – 16.0)
Power supply			1 phase 220 – 240V 50Hz, 1 phase 220V/60Hz		
Electrical characteristics	Cooling	Running current	(A)	5.05 – 4.60	7.15 – 6.55
		Power consumption	(kW)	3.11	4.42
		Power factor	(%)	94	94
		EER		3.22	2.74
	Heating	Running current	(A)	4.75 - 4.35	5.55 – 5.10
		Power consumption	(kW)	2.94	3.43
		Power factor	(%)	94	94
		COP		3.81	3.73
	Maximum current			21.6	22.8
Indoor unit					
Fan unit	Fan		Centrifugal fan		
	Standard air flow	H/M/L	(m³/min.)	15.0/12.0/9.0	23.5/16.7/12.5
	Motor		(W)	94	
Sound pressure level		H/M/L	(dB•A)	37/35/28	41/36/29
Sound power level		H/M/L	(dB•A)	52/50/43	56/51/44
Outdoor unit					
Fan unit	Fan		Propeller fan		
	Standard air flow		(m³/min.)	68	70
	Motor		(W)	100	100
Sound pressure level (*2)		Cooling/Heating	(dB•A)	53/54	54/55
Sound power level (*2)		Cooling/Heating	(dB•A)	70/71	70/71
Standard pipe length (at rated performance)			(m)	7.5	7.5
Minimum pipe length			(m)	5.0	5.0
Maximum pipe length			(m)	50.0	50.0
Max-height difference			(m)	30.0	30.0
Charge less length			(m)	30.0	30.0
	Additional refrigerant charge			40g/m (31m to 50m)	40g/m (31m to 50m)
Branch-kit				RBC-TWP30E2	RBC-TWP50E2
Connecting pipe	Gas side	Main	(mm)	15.9	
		Sub	(mm)	12.7	
	Liquid side	Main	(mm)	9.5	
		Sub	(mm)	6.4	
	Drain port		(mm)	VP20	
Operation temperature range	Cooling	(CDB)	-15 to 46		
	Heating	(CWB)	-15 to 15		

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

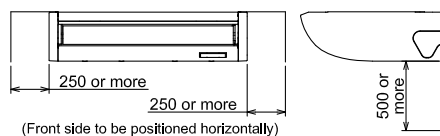
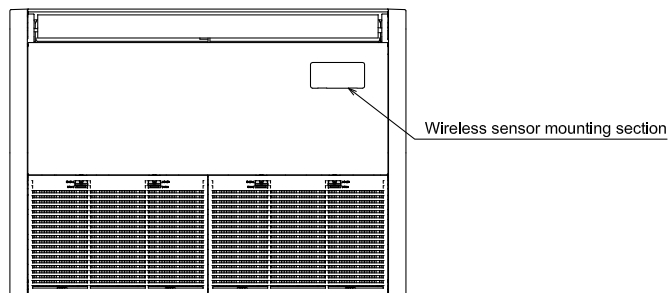
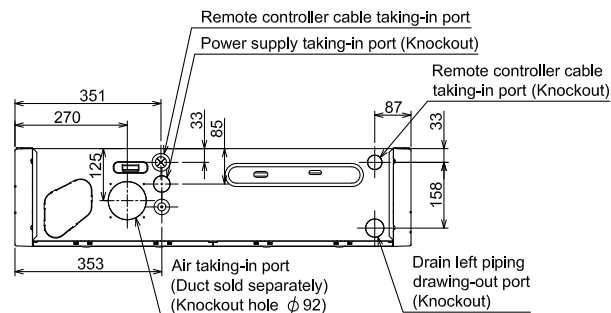
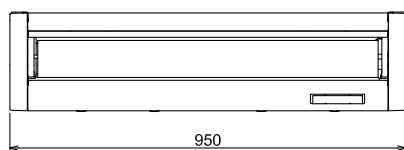
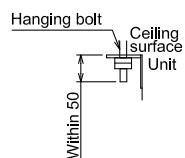
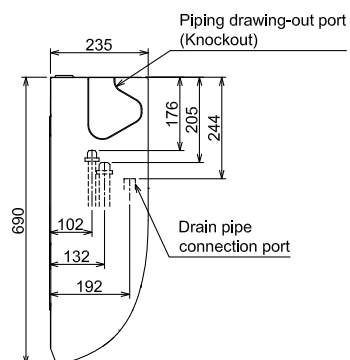
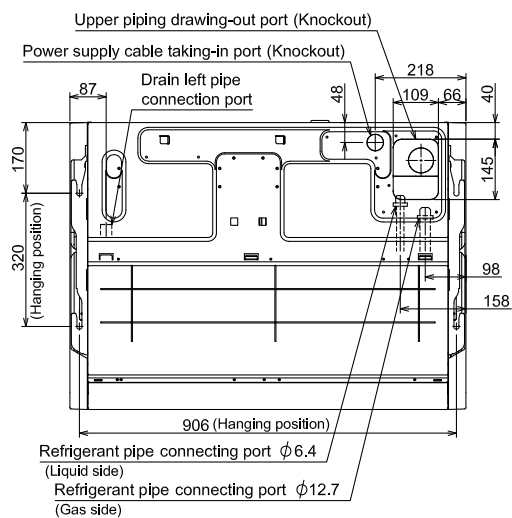
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-7-2. Dimension

RAV-SM568CTP-E(TR)

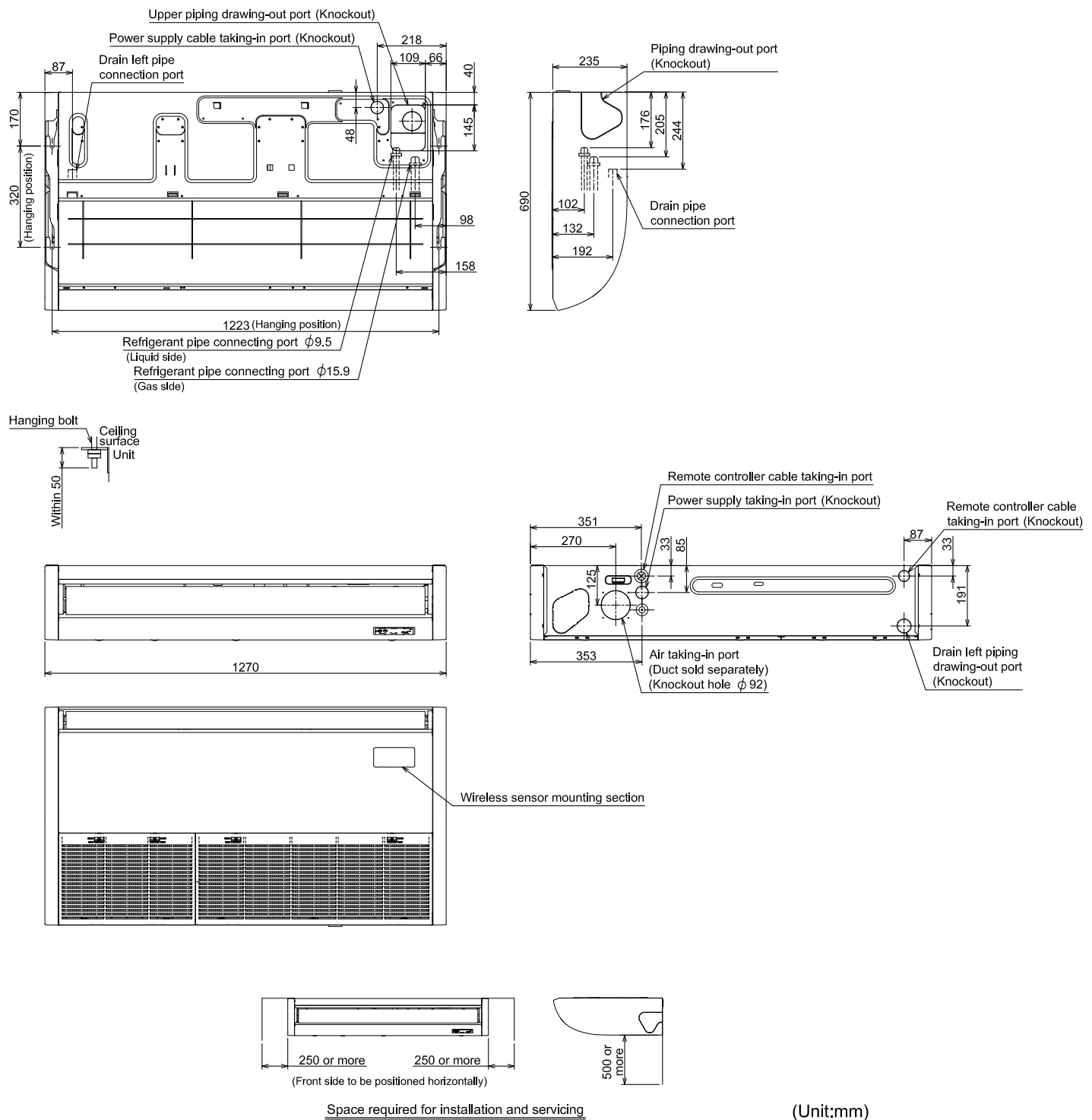


(Front side to be positioned horizontally)

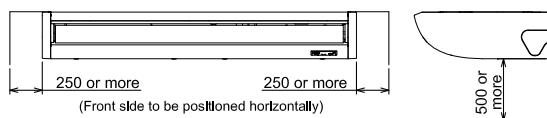
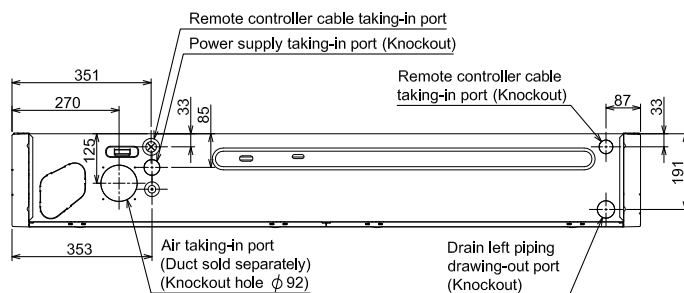
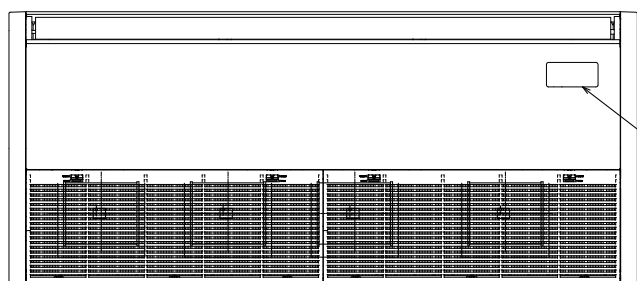
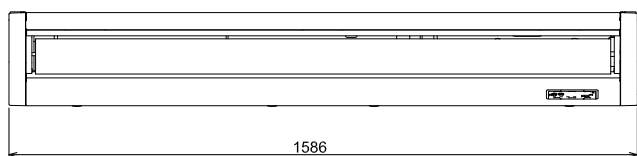
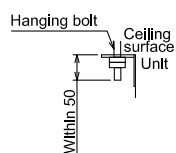
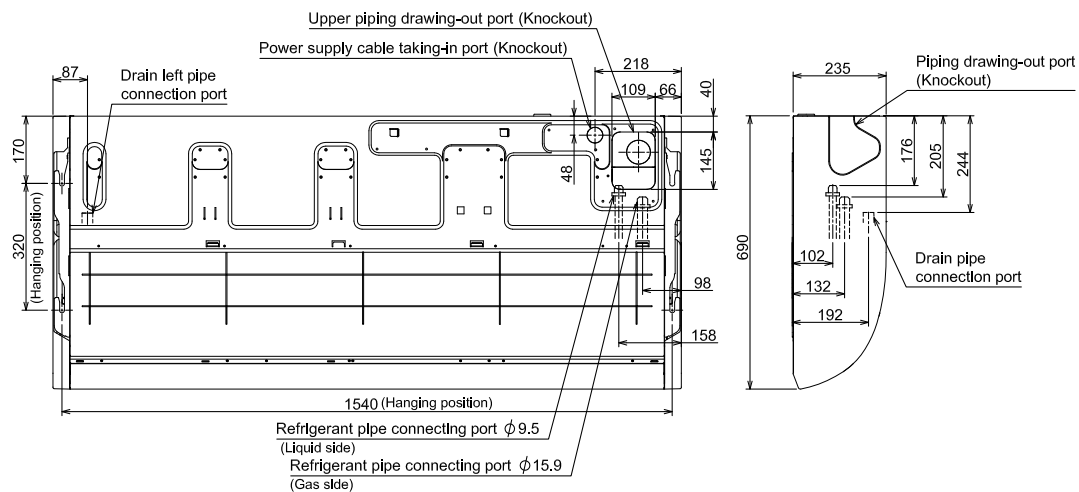
Space required for installation and servicing

(Unit:mm)

RAV-SM808CTP-E(TR)



RAV-SM1108CTP-E(TR), RAV-SM1408CTP-E(TR)

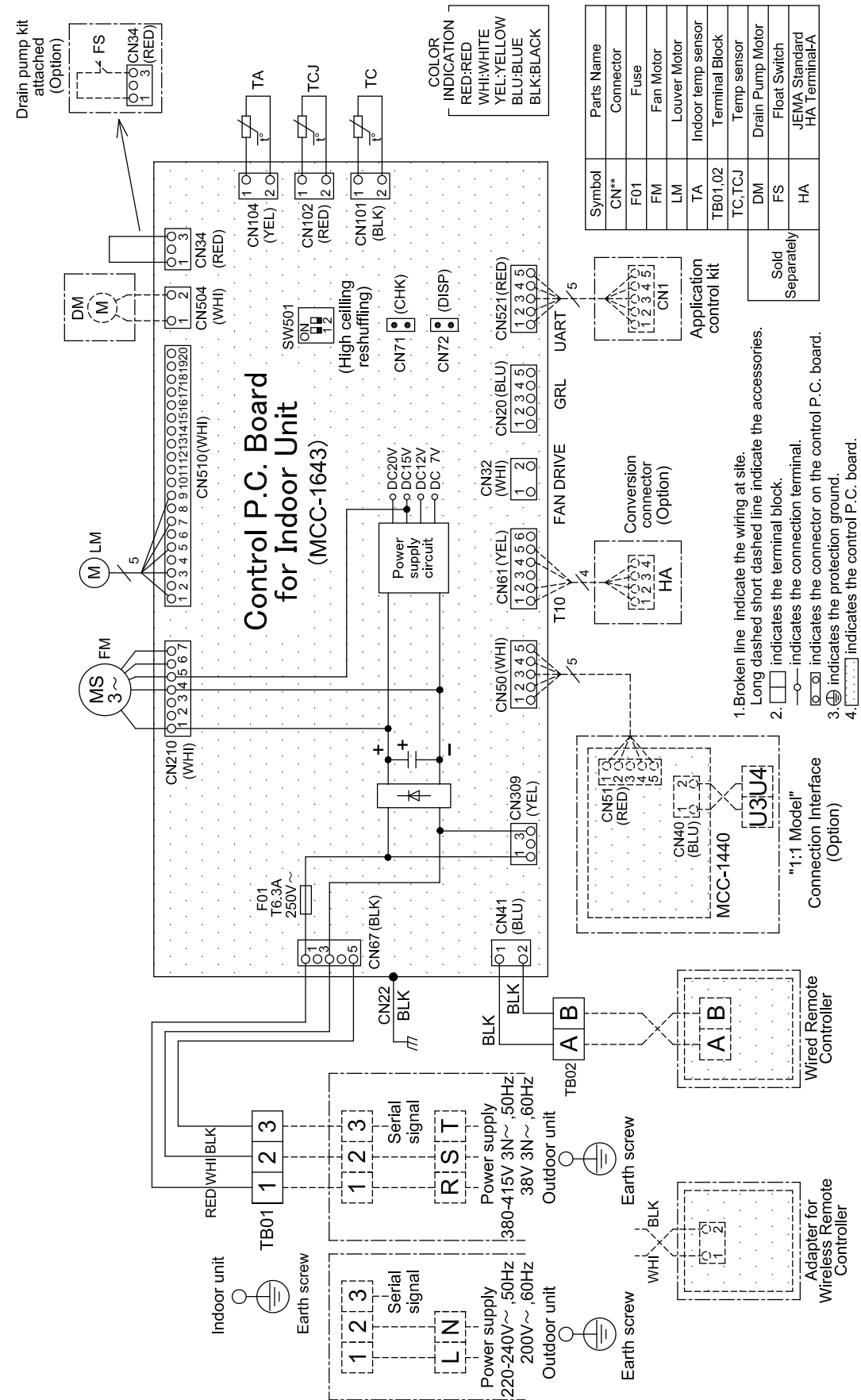


Space required for installation and servicing

(Unit:mm)

2-7-3. Wiring diagrams

RAV-SM568CTP-E(TR), RAV-SM808CTP-E(TR), RAV-SM1108CTP-E(TR), RAV-SM1408CTP-E(TR)



2-7-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***CTP-E(TR)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
567	10.0	4.7	3.5	4.9	3.7	5.2	3.9	5.4	4.0	5.6	4.2	5.7	4.3	5.9	4.4	6.2	4.7	6.5	4.9
	12.0	4.7	3.5	4.9	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.7	4.3	5.8	4.4	6.2	4.6	6.5	4.9
	14.0	4.6	3.5	4.9	3.7	5.1	3.8	5.3	4.0	5.5	4.1	5.6	4.2	5.8	4.4	6.1	4.6	6.4	4.8
	16.0	4.6	3.5	4.8	3.6	5.1	3.8	5.3	3.9	5.4	4.1	5.6	4.2	5.8	4.3	6.1	4.6	6.4	4.8
	18.0	4.6	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.1	5.6	4.2	5.7	4.3	6.1	4.5	6.3	4.8
	20.0	4.5	3.4	4.8	3.6	5.0	3.8	5.2	3.9	5.4	4.0	5.5	4.1	5.7	4.3	6.0	4.5	6.3	4.7
	21.0	4.5	3.4	4.7	3.6	5.0	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.6	4.2	6.0	4.5	6.3	4.7
	23.0	4.5	3.3	4.7	3.5	4.9	3.7	5.1	3.8	5.3	4.0	5.4	4.1	5.6	4.2	5.9	4.4	6.2	4.6
	25.0	4.4	3.3	4.6	3.5	4.9	3.7	5.0	3.8	5.2	3.9	5.4	4.0	5.5	4.1	5.9	4.4	6.1	4.6
	27.0	4.4	3.3	4.6	3.4	4.8	3.6	5.0	3.7	5.2	3.9	5.3	4.0	5.5	4.1	5.8	4.3	6.0	4.5
	29.0	4.3	3.2	4.5	3.4	4.8	3.6	4.9	3.7	5.1	3.8	5.2	3.9	5.4	4.0	5.7	4.3	6.0	4.5
	31.0	4.2	3.2	4.5	3.3	4.7	3.5	4.9	3.6	5.0	3.8	5.2	3.9	5.3	4.0	5.6	4.2	5.9	4.4
	33.0	4.2	3.1	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.7	5.1	3.8	5.2	3.9	5.5	4.2	5.8	4.3
	35.0	4.1	3.1	4.3	3.2	4.5	3.4	4.7	3.5	4.9	3.6	5.0	3.8	5.1	3.9	5.4	4.1	5.7	4.3
	37.0	4.0	3.0	4.2	3.2	4.4	3.3	4.6	3.5	4.8	3.6	4.9	3.7	5.0	3.8	5.3	4.0	5.6	4.2
	39.0	3.9	3.0	4.2	3.1	4.4	3.3	4.5	3.4	4.7	3.5	4.8	3.6	4.9	3.7	5.2	3.9	5.5	4.1

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
807	10.0	6.5	4.9	6.8	5.2	7.2	5.4	7.4	5.6	7.7	5.8	7.9	6.0	8.1	6.2	8.6	6.5	9.0	6.8
	12.0	6.4	4.9	6.8	5.1	7.1	5.4	7.4	5.6	7.6	5.8	7.8	6.0	8.1	6.1	8.5	6.5	8.9	6.8
	14.0	6.4	4.9	6.7	5.1	7.1	5.4	7.3	5.6	7.6	5.8	7.8	5.9	8.0	6.1	8.5	6.4	8.9	6.7
	16.0	6.4	4.8	6.7	5.1	7.0	5.3	7.3	5.5	7.5	5.7	7.7	5.9	8.0	6.0	8.4	6.4	8.8	6.7
	18.0	6.3	4.8	6.6	5.0	7.0	5.3	7.2	5.5	7.5	5.7	7.7	5.8	7.9	6.0	8.4	6.4	8.7	6.6
	20.0	6.3	4.8	6.6	5.0	6.9	5.2	7.1	5.4	7.4	5.6	7.6	5.8	7.8	5.9	8.3	6.3	8.7	6.6
	21.0	6.2	4.7	6.5	5.0	6.9	5.2	7.1	5.4	7.4	5.6	7.6	5.8	7.8	5.9	8.3	6.3	8.6	6.6
	23.0	6.2	4.7	6.5	4.9	6.8	5.2	7.0	5.4	7.3	5.5	7.5	5.7	7.7	5.9	8.2	6.2	8.5	6.5
	25.0	6.1	4.6	6.4	4.9	6.7	5.1	7.0	5.3	7.2	5.5	7.4	5.6	7.6	5.8	8.1	6.1	8.5	6.4
	27.0	6.0	4.6	6.3	4.8	6.6	5.1	6.9	5.2	7.1	5.4	7.3	5.6	7.5	5.7	8.0	6.1	8.3	6.3
	29.0	5.9	4.5	6.2	4.7	6.6	5.0	6.8	5.2	7.0	5.3	7.2	5.5	7.4	5.7	7.9	6.0	8.2	6.3
	31.0	5.9	4.4	6.2	4.7	6.5	4.9	6.7	5.1	6.9	5.3	7.1	5.4	7.3	5.6	7.8	5.9	8.1	6.2
	33.0	5.8	4.4	6.1	4.6	6.4	4.8	6.6	5.0	6.8	5.2	7.0	5.3	7.2	5.5	7.6	5.8	8.0	6.1
	35.0	5.7	4.3	6.0	4.5	6.3	4.8	6.5	4.9	6.7	5.1	6.9	5.2	7.1	5.4	7.5	5.7	7.9	6.0
	37.0	5.6	4.2	5.9	4.4	6.1	4.7	6.4	4.8	6.6	5.0	6.8	5.1	7.0	5.3	7.4	5.6	7.7	5.9
	39.0	5.4	4.1	5.7	4.4	6.0	4.6	6.2	4.7	6.4	4.9	6.6	5.0	6.8	5.2	7.2	5.5	7.6	5.7

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1107	10.0	9.4	7.1	9.9	7.5	10.4	7.9	10.7	8.2	11.1	8.4	11.4	8.7	11.8	8.9	12.5	9.5	13.0	9.9
	12.0	9.3	7.1	9.8	7.5	10.3	7.8	10.7	8.1	11.0	8.4	11.4	8.6	11.7	8.9	12.4	9.4	12.9	9.8
	14.0	9.3	7.0	9.8	7.4	10.2	7.8	10.6	8.1	11.0	8.3	11.3	8.6	11.6	8.8	12.3	9.3	12.9	9.8
	16.0	9.2	7.0	9.7	7.4	10.2	7.7	10.5	8.0	10.9	8.3	11.2	8.5	11.5	8.8	12.2	9.3	12.8	9.7
	18.0	9.1	6.9	9.6	7.3	10.1	7.7	10.4	7.9	10.8	8.2	11.1	8.5	11.4	8.7	12.1	9.2	12.7	9.6
	20.0	9.1	6.9	9.5	7.2	10.0	7.6	10.4	7.9	10.7	8.1	11.0	8.4	11.3	8.6	12.0	9.1	12.6	9.6
	21.0	9.0	6.9	9.5	7.2	10.0	7.6	10.3	7.8	10.7	8.1	11.0	8.3	11.3	8.6	12.0	9.1	12.5	9.5
	23.0	8.9	6.8	9.4	7.1	9.9	7.5	10.2	7.8	10.6	8.0	10.9	8.3	11.2	8.5	11.8	9.0	12.4	9.4
	25.0	8.8	6.7	9.3	7.1	9.8	7.4	10.1	7.7	10.4	7.9	10.8	8.2	11.1	8.4	11.7	8.9	12.2	9.3
	27.0	8.7	6.6	9.2	7.0	9.6	7.3	10.0	7.6	10.3	7.8	10.6	8.1	10.9	8.3	11.6	8.8	12.1	9.2
	29.0	8.6	6.5	9.1	6.9	9.5	7.2	9.8	7.5	10.2	7.7	10.5	8.0	10.8	8.2	11.4	8.7	11.9	9.1
	31.0	8.5	6.4	8.9	6.8	9.4	7.1	9.7	7.4	10.0	7.6	10.3	7.9	10.6	8.1	11.3	8.6	11.8	8.9
	33.0	8.4	6.3	8.8	6.7	9.2	7.0	9.6	7.3	9.9	7.5	10.2	7.7	10.5	8.0	11.1	8.4	11.6	8.8
	35.0	8.2	6.2	8.6	6.6	9.1	6.9	9.4	7.1	9.7	7.4	10.0	7.6	10.3	7.8	10.9	8.3	11.4	8.7
	37.0	8.1	6.1	8.5	6.4	8.9	6.8	9.2	7.0	9.5	7.2	9.8	7.5	10.1	7.7	10.7	8.1	11.2	8.5
	39.0	7.9	6.0	8.3	6.3	8.7	6.6	9.0	6.9	9.3	7.1	9.6	7.3	9.9	7.5	10.5	8.0	10.9	8.3

indoor air temp.																			
unit size	outdoor air temp. CDB	14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1407	10.0	11.4	8.3	12.0	8.7	12.5	9.2	13.0	9.5	13.4	9.8	13.8	10.1	14.2	10.4	15.1	11.0	15.8	11.5
	12.0	11.3	8.2	11.9	8.7	12.5	9.1	12.9	9.4	13.4	9.7	13.7	10.0	14.1	10.3	15.0	10.9	15.7	11.4
	14.0	11.2	8.2	11.8	8.6	12.4	9.0	12.8	9.4	13.3	9.7	13.7	10.0	14.1	10.3	14.9	10.9	15.6	11.4
	16.0	11.1	8.1	11.7	8.6	12.3	9.0	12.7	9.3	13.2	9.6	13.6	9.9	14.0	10.2	14.8	10.8	15.5	11.3
	18.0	11.1	8.1	11.6	8.5	12.2	8.9	12.6	9.2	13.1	9.5	13.5	9.8	13.8	10.1	14.7	10.7	15.3	11.2
	20.0	11.0	8.0	11.5	8.4	12.1	8.8	12.5	9.2	13.0	9.5	13.3	9.7	13.7	10.0	14.5	10.6	15.2	11.1
	21.0	10.9	8.0	11.5	8.4	12.1	8.8	12.5	9.1	12.9	9.4	13.3	9.7	13.7	10.0	14.5	10.6	15.1	11.0
	23.0	10.8	7.9	11.4	8.3	11.9	8.7	12.4	9.0	12.8	9.3	13.2	9.6	13.5	9.9	14.3	10.5	15.0	10.9
	25.0	10.7	7.8	11.2	8.2	11.8	8.6	12.2	8.9	12.6	9.2	13.0	9.5	13.4	9.8	14.2	10.3	14.8	10.8
	27.0	10.6	7.7	11.1	8.1	11.7	8.5	12.1	8.8	12.5	9.1	12.9	9.4	13.2	9.6	14.0	10.2	14.6	10.7
	29.0	10.4	7.6	11.0	8.0	11.5	8.4	11.9	8.7	12.3	9.0	12.7	9.3	13.0	9.5	13.8	10.1	14.4	10.5
	31.0	10.3	7.5	10.8	7.9	11.3	8.3	11.7	8.6	12.1	8.9	12.5	9.1	12.9	9.4	13.6	9.9	14.2	10.4
	33.0	10.1	7.4	10.6	7.8	11.2	8.1	11.6	8.4	12.0	8.7	12.3	9.0	12.7	9.2	13.4	9.8	14.0	10.2
	35.0	9.9	7.3	10.5	7.6	11.0	8.0	11.4	8.3	11.8	8.6	12.1	8.8	12.4	9.1	13.2	9.6	13.8	10.1
	37.0	9.8	7.1	10.3	7.5	10.8	7.9	11.1	8.1	11.5	8.4	11.9	8.7	12.2	8.9	12.9	9.4	13.5	9.9
39.0	9.6	7.0	10.0	7.3	10.5	7.7	10.9	8.0	11.3	8.2	11.6	8.5	12.0	8.7	12.7	9.2	13.2	9.7	

2-7-5. Part load performance

Combination

Indoor unit : RAV-SM1108CTP-E(TR)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3110	11200	2940

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3790	2840	2840	2840
	W	3380	2700	2190	1770	1420	1100	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3110	2480	2020	1630	1300	1010	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2820	2250	1830	1480	1180	920	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4350	3260	3260	3260
	W	2570	2050	1670	1350	1070	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4470	3350	3350	3350
	W	2320	1850	1500	1220	970	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3600	3600
	W	3230	2770	2330	1900	1520	1200	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3270	3270
	W	3070	2640	2220	1810	1440	1140	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2940	2530	2120	1730	1380	1090	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2520	2170	1820	1490	1190	940	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2490	2140	1800	1470	1170	920	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2120	1780	1450	1160	910	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2410	2070	1740	1420	1130	890	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2120	2120
	W	2380	2050	1720	1400	1120	880	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1660	1350	1080	850	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2050	1760	1480	1210	960	760	600	460	420	420

Combination

Indoor unit : RAV-SM1408CTP-E(TR)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3430

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3760	3170	2640	2170	1750	1390	1070	810	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3580	3010	2510	2060	1670	1320	1020	770	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3430	2890	2400	1980	1600	1260	970	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2940	2480	2060	1700	1370	1080	840	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2900	2440	2030	1670	1350	1070	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2870	2420	2010	1660	1340	1060	820	620	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2810	2360	1970	1620	1310	1030	800	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2780	2340	1950	1600	1290	1020	790	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2680	2250	1870	1540	1250	990	760	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2390	2010	1680	1380	1110	880	680	510	420	420

Combination

Indoor unit : RAV-SM568CTP-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3110	11200	2940

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3790	2840	2840	2840
	W	3380	2700	2190	1770	1420	1100	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3110	2480	2020	1630	1300	1010	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2820	2250	1830	1480	1180	920	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4350	3260	3260	3260
	W	2570	2050	1670	1350	1070	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4470	3350	3350	3350
	W	2320	1850	1500	1220	970	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3600	3600
	W	3230	2770	2330	1900	1520	1200	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3270	3270
	W	3070	2640	2220	1810	1440	1140	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2940	2530	2120	1730	1380	1090	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2520	2170	1820	1490	1190	940	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2490	2140	1800	1470	1170	920	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2460	2120	1780	1450	1160	910	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2410	2070	1740	1420	1130	890	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2120	2120
	W	2380	2050	1720	1400	1120	880	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2290	1970	1660	1350	1080	850	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2050	1760	1480	1210	960	760	600	460	420	420

Combination

Indoor unit : RAV-SM808CTP-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4420	12800	3430

Q: Capacity in W
W: Power Consumption in W

Cooling

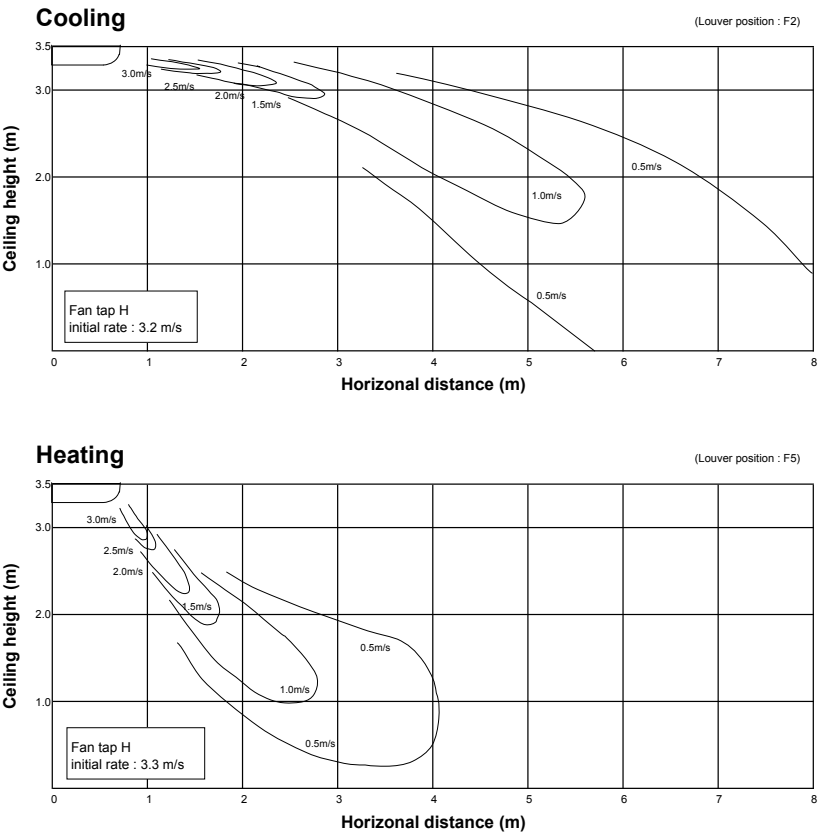
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	4810	3880	3050	2340	1770	1340	1020	760	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4420	3570	2800	2150	1630	1230	940	700	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4010	3240	2540	1950	1480	1120	850	640	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3650	2950	2310	1770	1350	1020	780	580	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3290	2660	2090	1600	1210	920	700	520	450	450

Heating

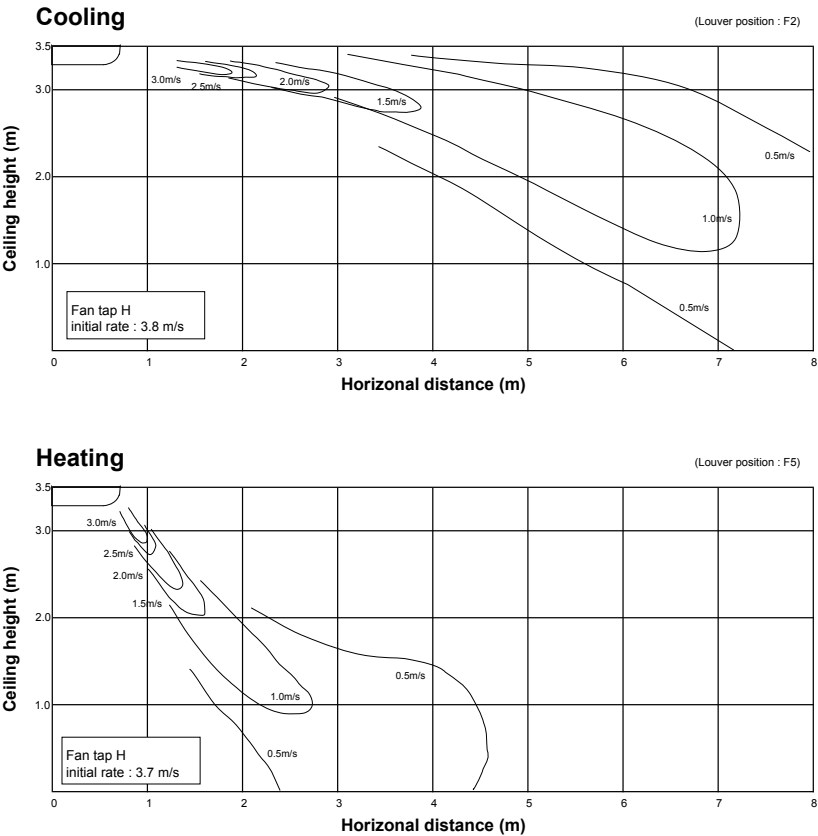
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	3760	3170	2640	2170	1750	1390	1070	810	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3580	3010	2510	2060	1670	1320	1020	770	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3430	2890	2400	1980	1600	1260	970	730	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	2940	2480	2060	1700	1370	1080	840	630	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	2900	2440	2030	1670	1350	1070	820	620	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	2870	2420	2010	1660	1340	1060	820	620	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	2810	2360	1970	1620	1310	1030	800	600	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	2780	2340	1950	1600	1290	1020	790	590	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2680	2250	1870	1540	1250	990	760	570	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2390	2010	1680	1380	1110	880	680	510	420	420

2-7-6. Air throw distance chart

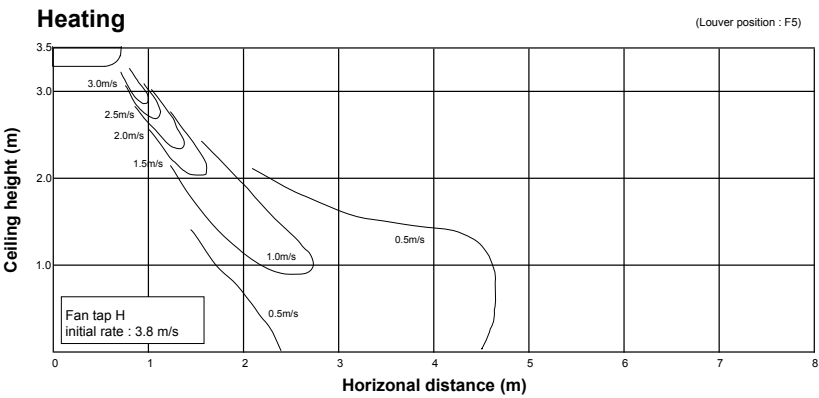
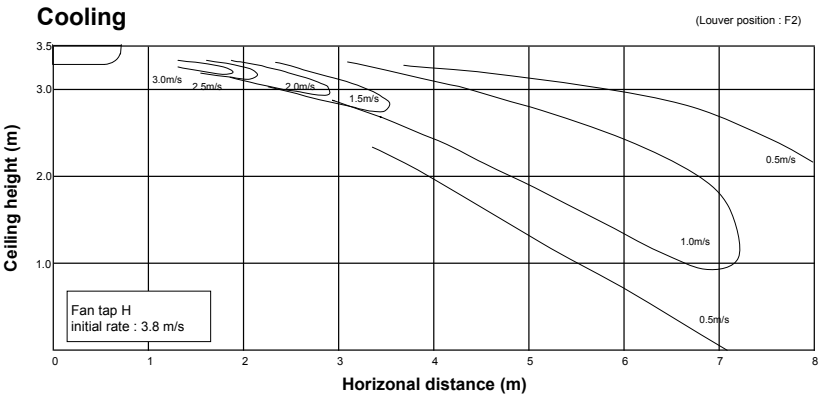
RAV-SM568CTP-E(TR)



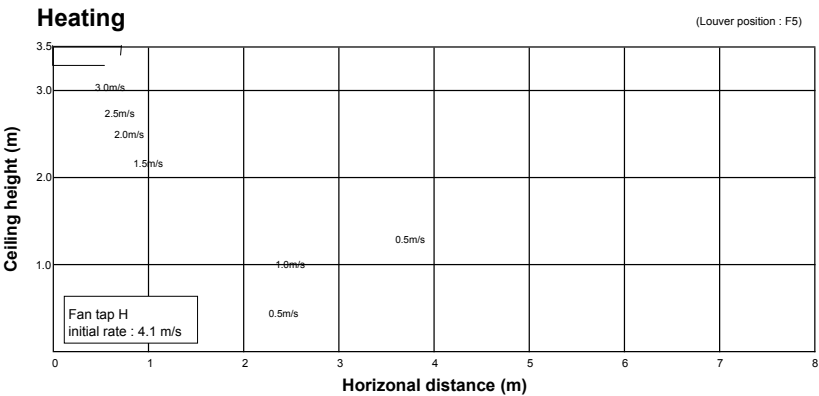
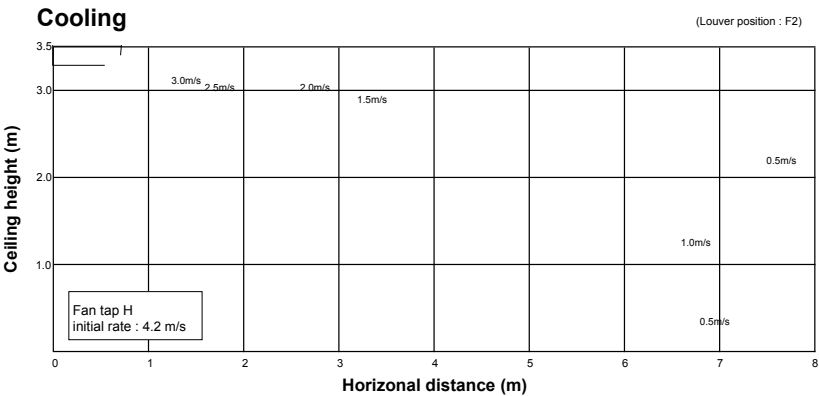
RAV-SM808CTP-E(TR)



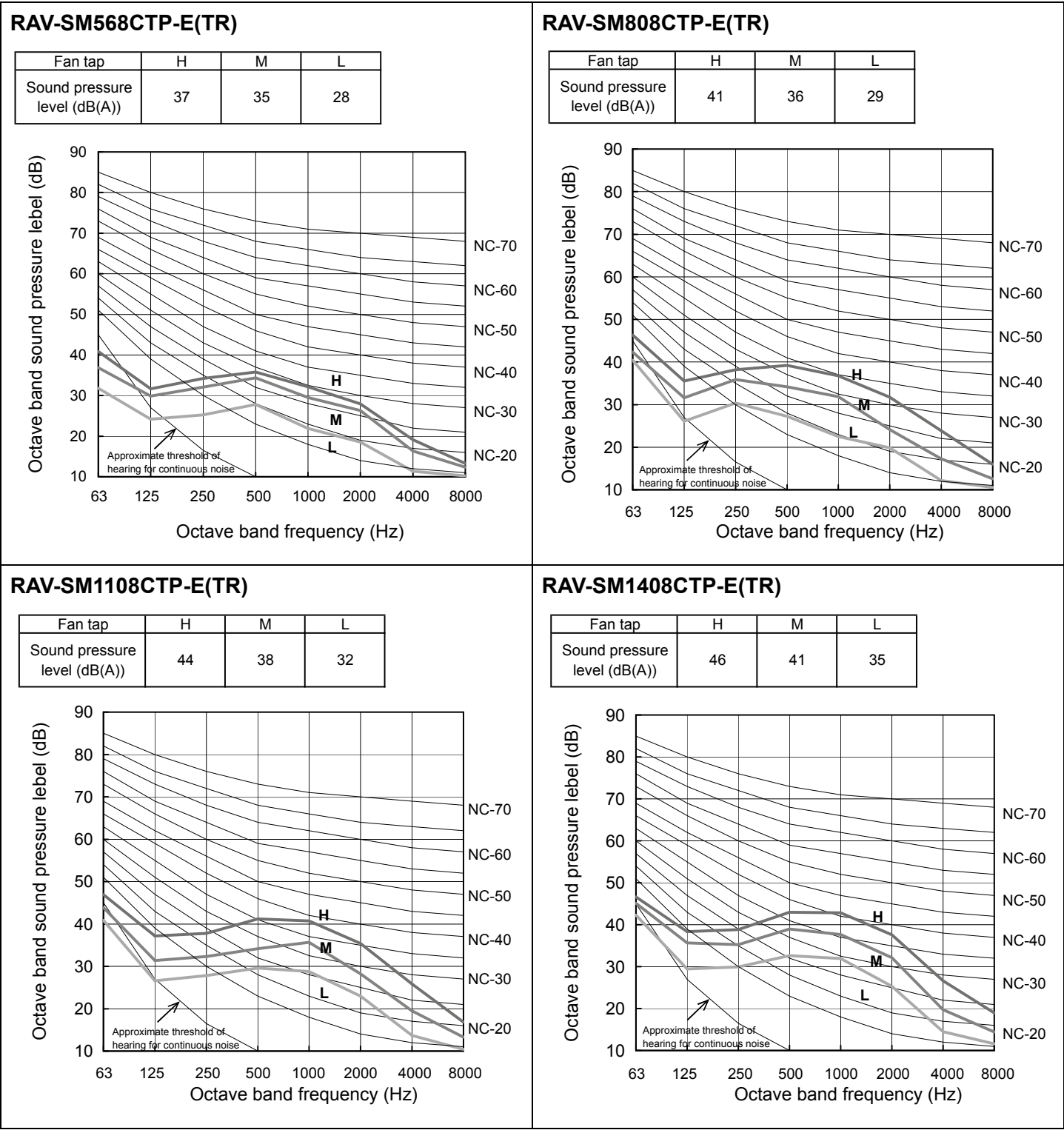
RAV-SM1108CTP-E(TR)



RAV-SM1408CTP-E(TR)



2-7-7. Sound characteristics (NC curve)



2-8. High Wall Type (6 series)

2-8-1. Specifications

2-8-2. Dimension

2-8-3. Wiring diagrams

2-8-4. Sensible capacity table

2-8-5. Part load performance

2-8-6. Air throw distance chart

2-8-7. Sound characteristics (NC curve)

2-8-1. Specifications

<Twin type>

Model	Indoor unit 1		RAV-SM	566KRT-E(TR)		806KRT-E(TR)	
	Indoor unit 2		RAV-SM	566KRT-E(TR)		806KRT-E(TR)	
	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR		1404AT8(J)P-E / 1404AT8P-TR	
Cooling capacity (*1)			(kW)	10.0 (3.0 – 11.2)		12.1 (3.0 – 13.0)	
Heating capacity (*1)			(kW)	11.2 (3.0 – 12.5)		12.8 (3.0 – 16.0)	
Power supply				3 phase 380 – 415V/50Hz, 3 phase 380V/60Hz			
Electrical characteristics	Cooling	Running current	(A)	5.05 – 4.65		7.60 – 7.00	
		Power consumption	(kW)	3.13		4.71	
		Power factor	(%)	94		94	
		EER		3.19		2.57	
	Heating	Running current	(A)	4.85 – 4.45		6.15 – 5.60	
		Power consumption	(kW)	2.99		3.80	
		Power factor	(%)	94		94	
		COP		3.75		3.37	
	Maximum current			(A)	20.3		22.8
Indoor unit							
Fan unit	Fan			Cross flow fan			
	Standard air flow	H/M/L	(m³/min.)	14.0/12.5/11.0		17.0/12.5/11.0	
	Motor		(W)	30			
Sound pressure level		H/M/L	(dB•A)	42/39/36		47/41/36	
Sound power level		H/M/L	(dB•A)	57/54/51		62/56/51	
Outdoor unit							
Refrigerant pipe	Standard length		(m)	7.5			
	Max. total length		(m)	50			
	Refrigerant charging amount (Charge-less up to 30m)			40g/m (31m to 50m)			
	Height difference	Outdoor lower	(m)	30			
		Outdoor higher	(m)	30			
Fan unit	Fan			Propeller fan			
	Standard air flow		(m³/min.)	68		70	
	Motor			100			
Connecting pipe	Gas side	Main	(mm)	15.9			
		Sub	(mm)	12.7			
	Liquid side	Main	(mm)	9.5			
		Sub	(mm)	6.4			
Sound pressure level (*2)		Cooling/Heating	(dB•A)	53/54		54/55	
Sound power level (*2)		Cooling/Heating	(dB•A)	70/71		70/71	

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

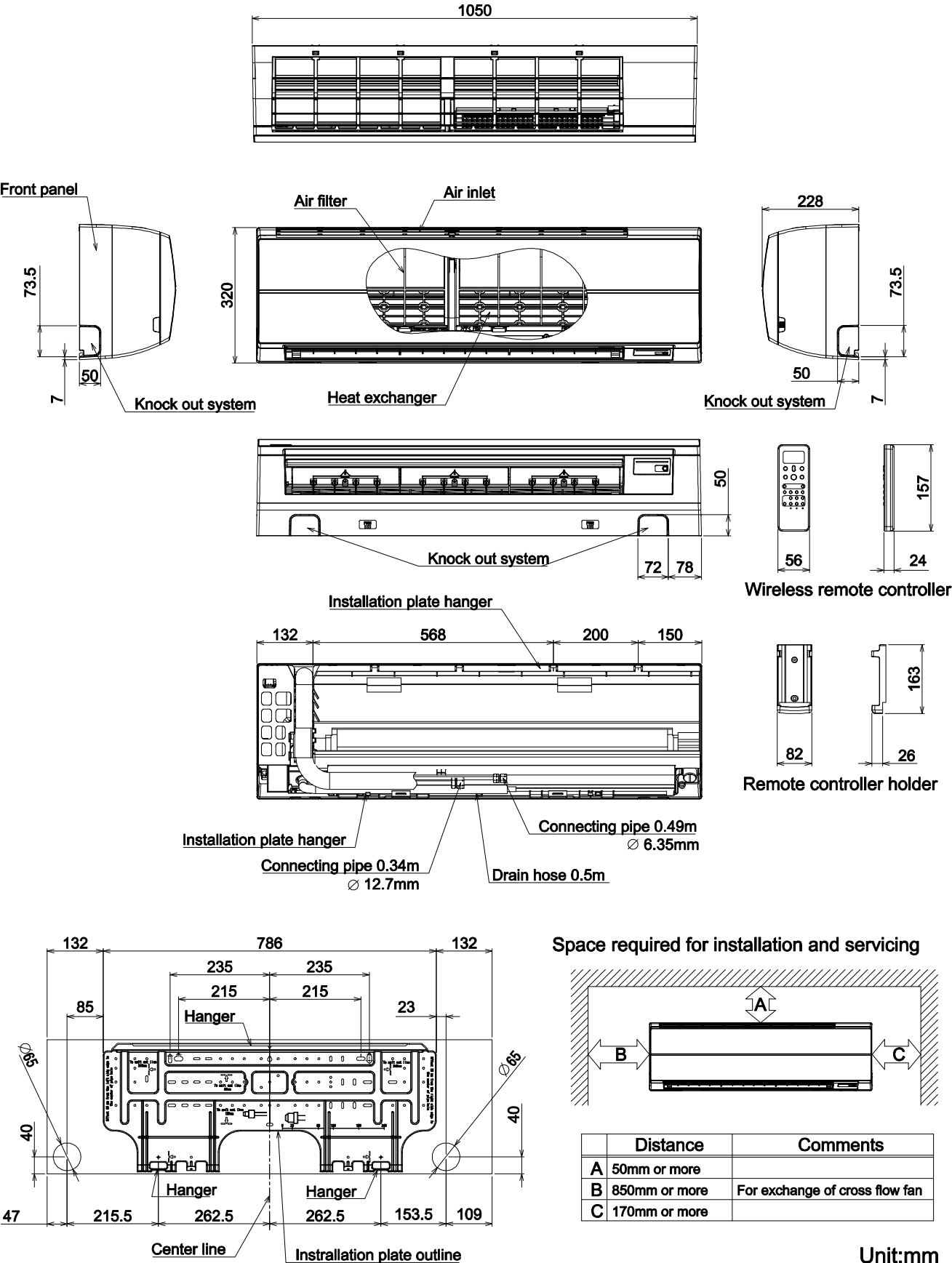
*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note :

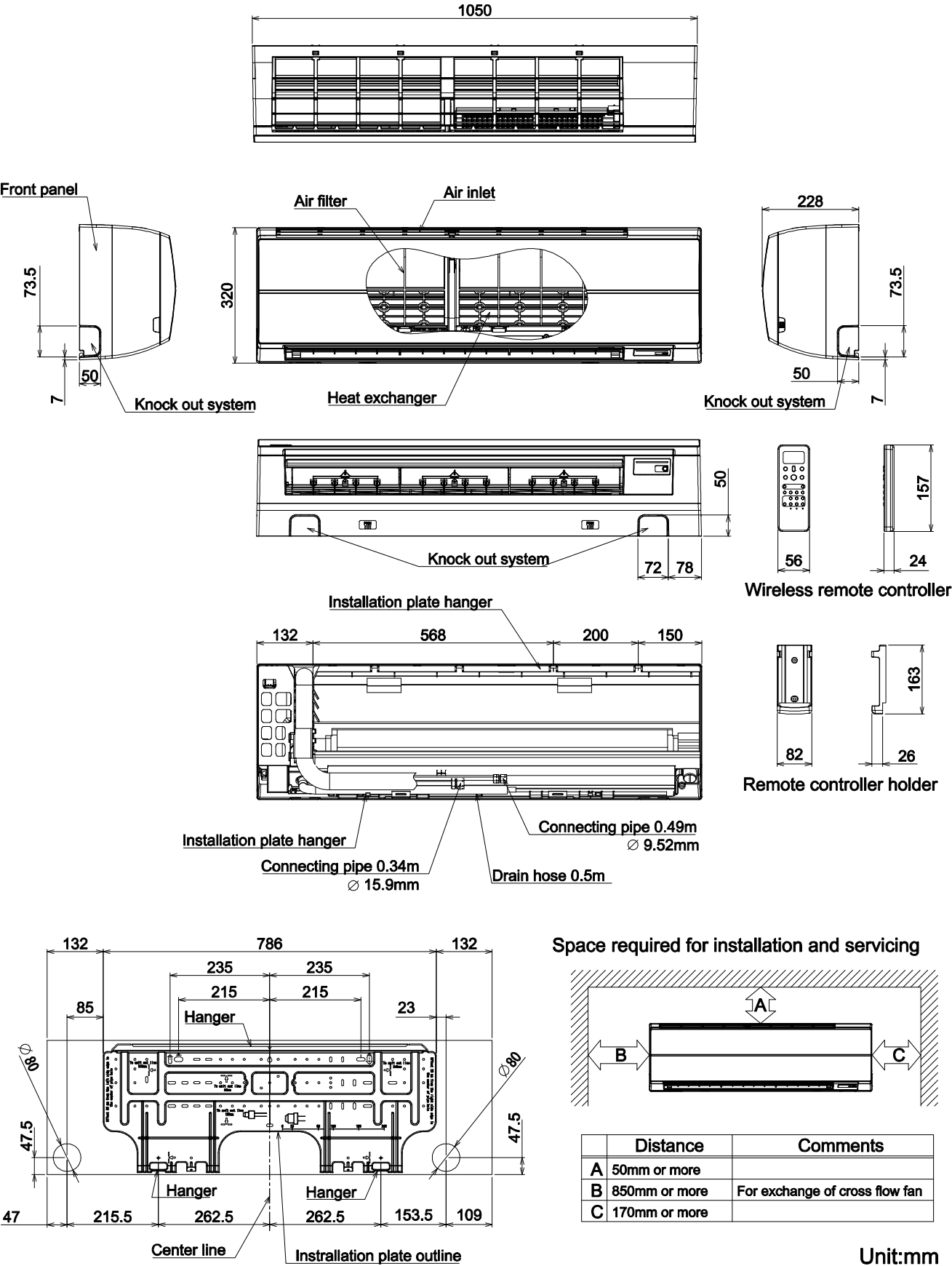
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-8-2. Dimension

RAV-SM566KRT-E(TR)

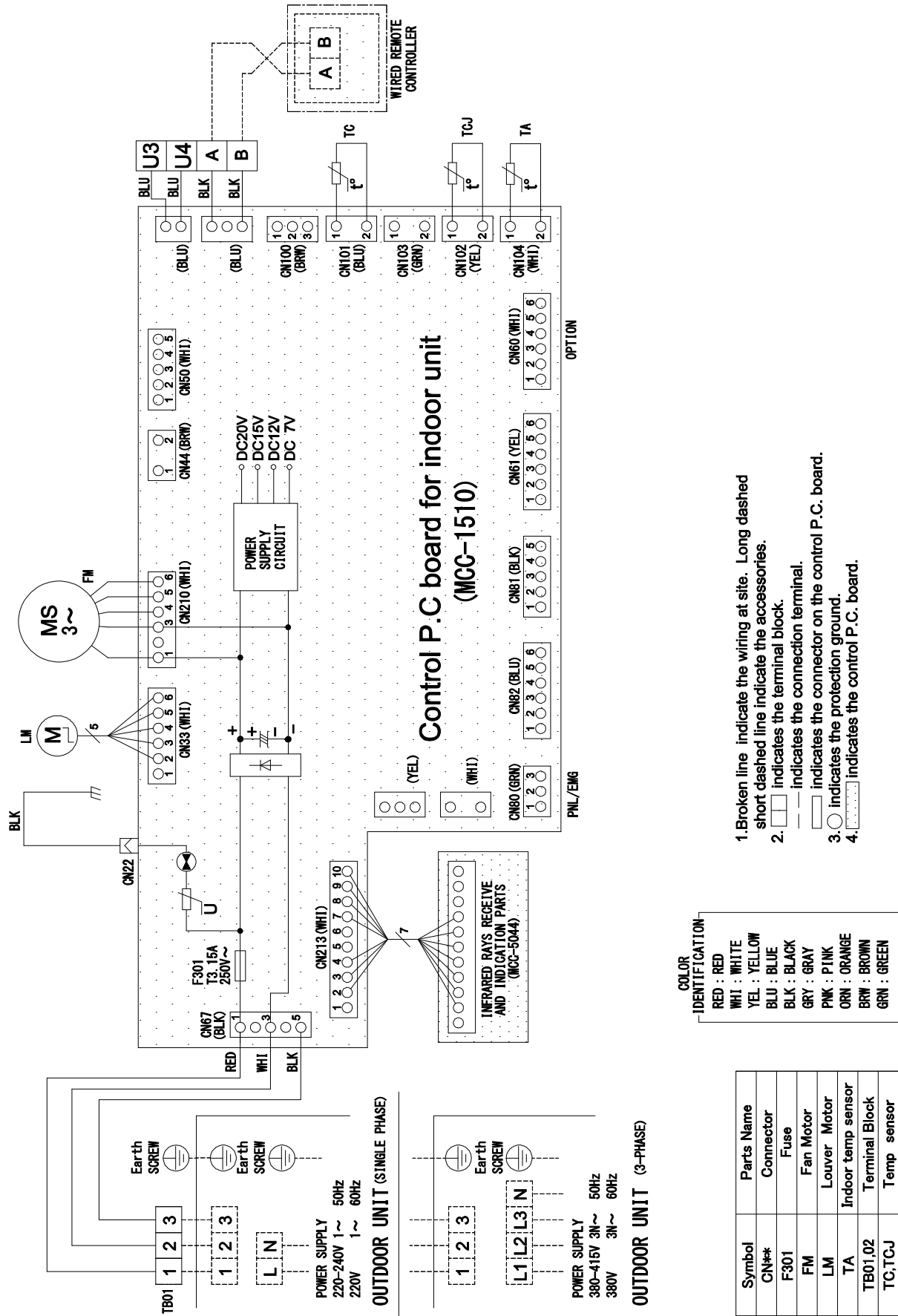


RAV-SM806KRT-E(TR)



2-8-3. Wiring diagrams

RAV-SM566KRT-E(TR), RAV-SM806KRT-E(TR)



2-8-4. Sensible capacity table

Digital Inverter series 4 Sensible Heat Capacity : RAV-SM***KRT-E(TR)

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.4	4.9	3.6	5.2	3.7	5.4	3.9	5.6	4.0	5.7	4.1	5.9	4.2	6.2	4.5	6.5	4.7
	12.0	4.7	3.4	4.9	3.5	5.2	3.7	5.3	3.8	5.5	4.0	5.7	4.1	5.8	4.2	6.2	4.5	6.5	4.7
	14.0	4.6	3.3	4.9	3.5	5.1	3.7	5.3	3.8	5.5	3.9	5.6	4.1	5.8	4.2	6.1	4.4	6.4	4.6
	16.0	4.6	3.3	4.8	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.8	4.2	6.1	4.4	6.4	4.6
	18.0	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.6	4.0	5.7	4.1	6.1	4.4	6.3	4.6
	20.0	4.5	3.3	4.8	3.4	5.0	3.6	5.2	3.7	5.4	3.9	5.5	4.0	5.7	4.1	6.0	4.3	6.3	4.5
	21.0	4.5	3.2	4.7	3.4	5.0	3.6	5.2	3.7	5.3	3.8	5.5	4.0	5.6	4.1	6.0	4.3	6.3	4.5
	23.0	4.5	3.2	4.7	3.4	4.9	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.9	4.3	6.2	4.5
	25.0	4.4	3.2	4.6	3.3	4.9	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.5	4.0	5.9	4.2	6.1	4.4
	27.0	4.4	3.1	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.5	3.9	5.8	4.2	6.0	4.4
	29.0	4.3	3.1	4.5	3.3	4.8	3.4	4.9	3.5	5.1	3.7	5.2	3.8	5.4	3.9	5.7	4.1	6.0	4.3
	31.0	4.2	3.1	4.5	3.2	4.7	3.4	4.9	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.6	4.1	5.9	4.2
	33.0	4.2	3.0	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.6	5.1	3.7	5.2	3.8	5.5	4.0	5.8	4.2
	35.0	4.1	3.0	4.3	3.1	4.5	3.3	4.7	3.4	4.9	3.5	5.0	3.6	5.1	3.7	5.4	3.9	5.7	4.1
	37.0	4.0	2.9	4.2	3.1	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.5	5.0	3.6	5.3	3.8	5.6	4.0
	39.0	3.9	2.8	4.2	3.0	4.4	3.1	4.5	3.2	4.7	3.4	4.8	3.5	4.9	3.6	5.2	3.8	5.5	3.9

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
806	10.0	6.3	4.4	6.6	4.6	6.9	4.9	7.2	5.0	7.4	5.2	7.7	5.4	7.9	5.5	8.3	5.9	8.7	6.1
	12.0	6.3	4.4	6.6	4.6	6.9	4.8	7.1	5.0	7.4	5.2	7.6	5.3	7.8	5.5	8.3	5.8	8.7	6.1
	14.0	6.2	4.4	6.5	4.6	6.9	4.8	7.1	5.0	7.3	5.2	7.6	5.3	7.8	5.5	8.2	5.8	8.6	6.0
	16.0	6.2	4.3	6.5	4.6	6.8	4.8	7.1	4.9	7.3	5.1	7.5	5.3	7.7	5.4	8.2	5.7	8.6	6.0
	18.0	6.1	4.3	6.4	4.5	6.8	4.7	7.0	4.9	7.2	5.1	7.5	5.2	7.7	5.4	8.1	5.7	8.5	6.0
	20.0	6.1	4.3	6.4	4.5	6.7	4.7	6.9	4.9	7.2	5.0	7.4	5.2	7.6	5.3	8.1	5.6	8.4	5.9
	21.0	6.0	4.2	6.4	4.5	6.7	4.7	6.9	4.8	7.1	5.0	7.4	5.2	7.6	5.3	8.0	5.6	8.4	5.9
	23.0	6.0	4.2	6.3	4.4	6.6	4.6	6.8	4.8	7.1	5.0	7.3	5.1	7.5	5.3	7.9	5.6	8.3	5.8
	25.0	5.9	4.2	6.2	4.4	6.5	4.6	6.8	4.7	7.0	4.9	7.2	5.1	7.4	5.2	7.8	5.5	8.2	5.8
	27.0	5.8	4.1	6.1	4.3	6.5	4.5	6.7	4.7	6.9	4.8	7.1	5.0	7.3	5.1	7.8	5.4	8.1	5.7
	29.0	5.8	4.0	6.1	4.3	6.4	4.5	6.6	4.6	6.8	4.8	7.0	4.9	7.2	5.1	7.6	5.4	8.0	5.6
	31.0	5.7	4.0	6.0	4.2	6.3	4.4	6.5	4.6	6.7	4.7	6.9	4.9	7.1	5.0	7.5	5.3	7.9	5.5
	33.0	5.6	3.9	5.9	4.1	6.2	4.3	6.4	4.5	6.6	4.6	6.8	4.8	7.0	4.9	7.4	5.2	7.8	5.4
	35.0	5.5	3.9	5.8	4.1	6.1	4.3	6.3	4.4	6.5	4.6	6.7	4.7	6.9	4.8	7.3	5.1	7.6	5.4
	37.0	5.4	3.8	5.7	4.0	6.0	4.2	6.2	4.3	6.4	4.5	6.6	4.6	6.8	4.7	7.2	5.0	7.5	5.3
	39.0	5.3	3.7	5.6	3.9	5.8	4.1	6.0	4.2	6.3	4.4	6.4	4.5	6.6	4.6	7.0	4.9	7.3	5.1

TC: Total Capacity [kW]

SHC: Sensible Heat Capacity [kW]

2-8-5. Part load performance

Combination

Indoor unit : RAV-SM566KRT-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	10000	3130	11200	2990

Q: Capacity in W

W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4730	3780	2840	2840	2840
	W	3400	2720	2210	1790	1430	1110	860	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3130	2500	2030	1640	1310	1020	790	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2840	2270	1840	1490	1190	930	720	540	540	540
25	Q	10880	9780	8710	7620	6530	5440	4340	3260	3260	3260
	W	2580	2060	1680	1360	1080	840	650	500	500	500
20	Q	11170	10050	8940	7820	6700	5580	4460	3350	3350	3350
	W	2330	1860	1510	1220	980	760	590	450	450	450

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10730	9390	8050	6700	5360	4010	3600	3600
	W	3280	2820	2370	1930	1540	1210	940	720	660	660
10	Q	12190	10950	9750	8530	7310	6090	4870	3640	3270	3270
	W	3120	2680	2250	1840	1470	1150	900	690	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	2990	2570	2160	1760	1410	1100	860	660	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2580	2310	2310
	W	2570	2210	1850	1510	1210	950	740	570	520	520
2	Q	8440	7580	6750	5900	5060	4210	3370	2520	2260	2260
	W	2530	2180	1830	1490	1190	930	730	560	510	510
0	Q	8310	7470	6650	5820	4990	4150	3320	2490	2230	2230
	W	2510	2150	1810	1480	1180	920	720	550	500	500
-5	Q	8010	7200	6410	5610	4810	4000	3200	2400	2150	2150
	W	2450	2100	1770	1440	1150	900	700	540	490	490
-7	Q	7890	7090	6310	5520	4730	3940	3150	2360	2120	2120
	W	2420	2080	1750	1430	1140	890	700	540	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2330	2010	1680	1370	1100	860	670	520	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2080	1790	1510	1230	980	770	600	460	420	420

Combination

Indoor unit : RAV-SM806KRT-E(TR) x 2 (Twin)

Outdoor unit : RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	3000	600	3000	600
RATING	12100	4710	12800	3800

Q: Capacity in W
W: Power Consumption in W

Cooling

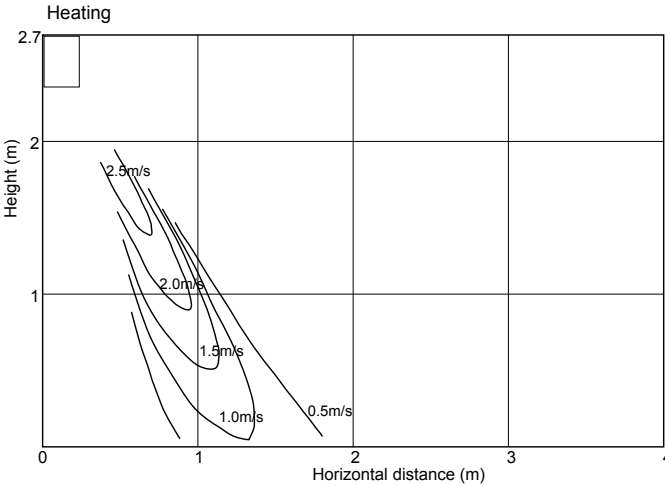
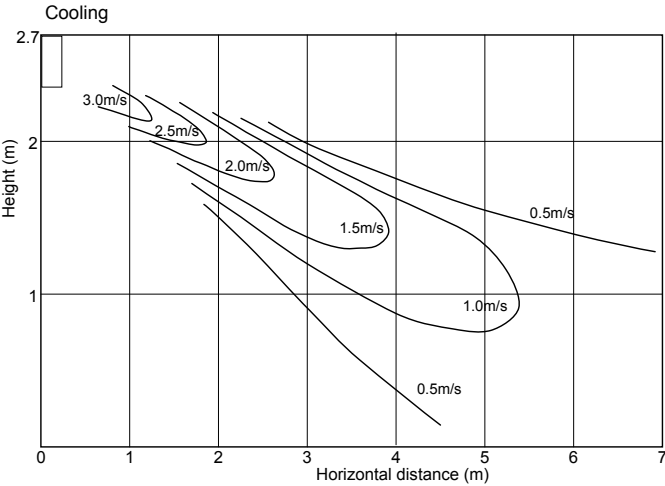
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10310	9170	8030	6880	5730	4590	3440	2840	2840
	W	5120	4140	3250	2490	1890	1420	1060	780	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4710	3810	2980	2290	1740	1310	980	720	600	600
30	Q	12680	11410	10140	8880	7610	6340	5080	3810	3140	3140
	W	4270	3450	2710	2080	1580	1190	890	650	540	540
25	Q	13160	11840	10530	9220	7900	6580	5270	3960	3260	3260
	W	3880	3140	2460	1890	1440	1080	810	600	500	500
20	Q	13520	12160	10810	9470	8120	6760	5410	4060	3350	3350
	W	3510	2840	2220	1710	1300	980	730	540	450	450

Heating

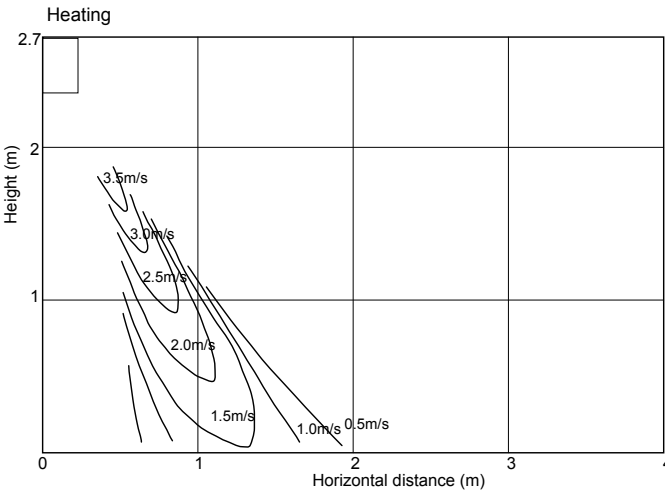
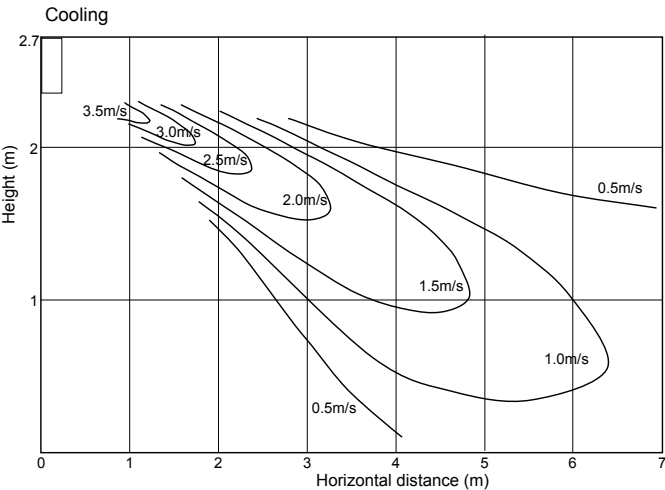
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9180	7660	6140	4600	3590	3590
	W	4170	3510	2920	2400	1940	1540	1160	830	660	660
10	Q	13930	12530	11140	9740	8340	6960	5580	4180	3260	3260
	W	3970	3340	2780	2290	1850	1460	1110	790	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3800	3200	2660	2190	1770	1400	1060	760	600	600
5	Q	9860	8870	7880	6900	5910	4930	3950	2960	2310	2310
	W	3260	2740	2280	1880	1520	1200	910	650	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3220	2710	2250	1850	1500	1190	900	640	510	510
0	Q	9500	8550	7600	6650	5690	4750	3810	2850	2230	2230
	W	3180	2680	2230	1840	1480	1170	890	640	500	500
-5	Q	9160	8240	7320	6410	5480	4580	3670	2750	2150	2150
	W	3110	2620	2180	1790	1450	1150	870	620	490	490
-7	Q	9020	8110	7210	6310	5400	4510	3610	2710	2110	2110
	W	3080	2590	2160	1770	1430	1130	860	620	490	490
-10	Q	8330	7490	6650	5820	4990	4160	3330	2500	1950	1950
	W	2960	2490	2080	1710	1380	1090	830	590	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2570	1920	1500	1500
	W	2650	2230	1860	1530	1230	980	740	530	420	420

2-8-6. Air throw distance chart

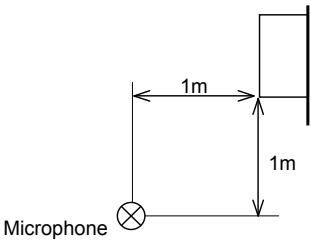
RAV-SM566KRT-E(TR)



RAV-SM806KRT-E(TR)

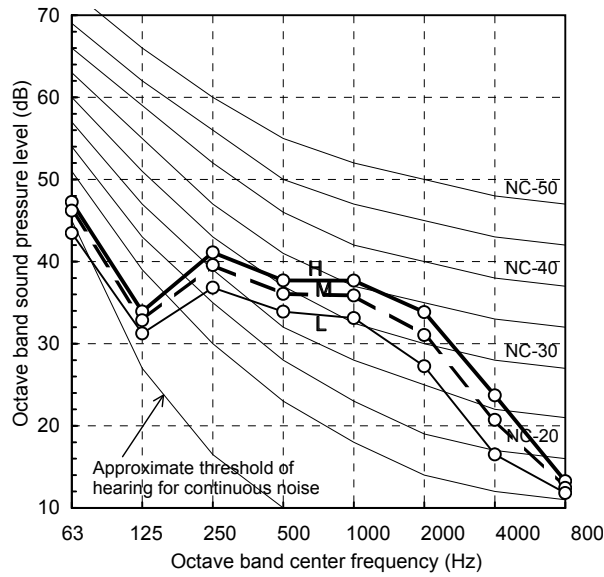


2-8-7. Sound characteristics (NC curve)



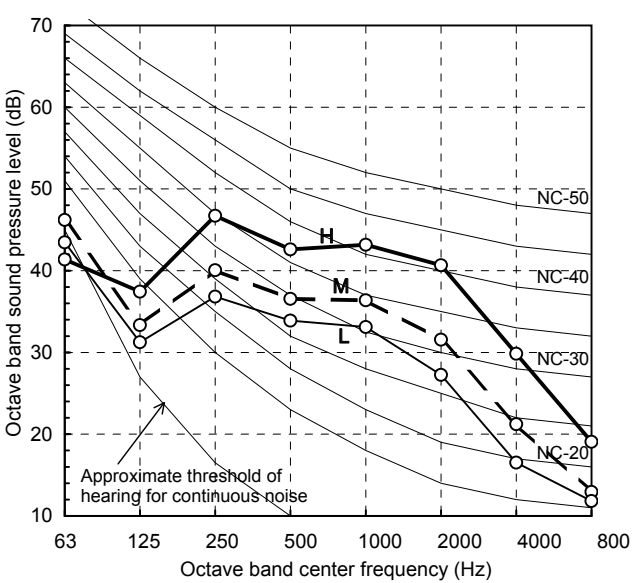
RAV-SM566KRT-E(TR)

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	36



RAV-SM806KRT-E(TR)

Fan tap	H	M	L
Sound pressure level (dB(A))	47	41	36



3. Outdoor Unit

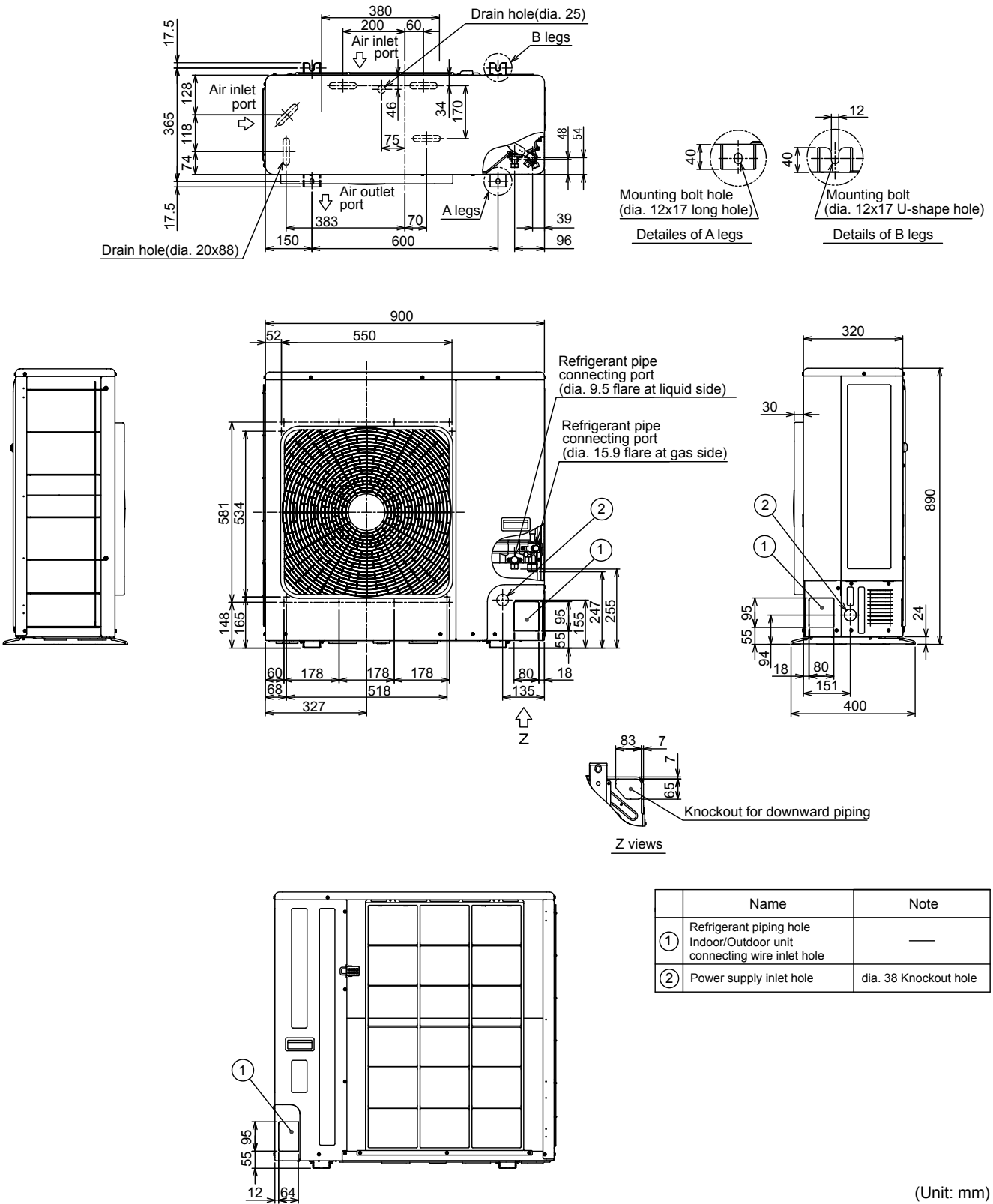
- 3-1. Specifications
- 3-2. Dimension
- 3-3. Wiring diagrams
- 3-4. Refrigerant cycle diagram
- 3-5. Sound characteristics (NC curve)
- 3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

3-1. Specifications

Model	Outdoor unit		RAV-SM	1104AT8(J)P-E / 1104AT8P-TR		1404AT8(J)P-E / 1404AT8P-TR	
Power supply				3 phase 0V 380 – 415V/50Hz, 3 phase 380V/60Hz (Power exclusive to outdoor is required.)			
Compressor	Type			Hermetic compressor			
	Motor (kW)			2.5		3.0	
	Pole			4		4	
Refrigerant charged			(kg)	2.8		2.8	
Refrigerant control				Pulse motor valve			
Inter connecting pipe	Standard length (m)			7.5		7.5	
	Min. length (m)			5		5	
	Max. total length (m)			50		50	
	Additional refrigerant charge under long piping connector			40g/m (31m to 50m)		40g/m (31m to 50m)	
	Height difference	Outdoor lower (m)		30		30	
		Outdoor higher (m)		30		30	
Outer dimension	Height (mm)			890		890	
	Width (mm)			900		900	
	Depth (mm)			320		320	
Appearance				Silky shade (Muncel 1Y 8.5/0.5)			
Total weight			(kg)	68		68	
Heat exchanger				Finned tube			
Fan unit	Fan			Propeller fan			
	Standard air flow (m³/min.)			68		70	
	Motor (W)			100		100	
Connecting pipe	Gas side (mm)			15.9		15.9	
	Liquid side (mm)			9.5		9.5	
Sound pressure level		Cooling/Heating	(dB•A)	53/54		54/55	
Sound power level		Cooling/Heating	(dB•A)	70/71		70/71	
Outside air temperature, Cooling (°C)				46 to –15°C			
Outside air temperature, Heating (°C)				15 to –15°C			

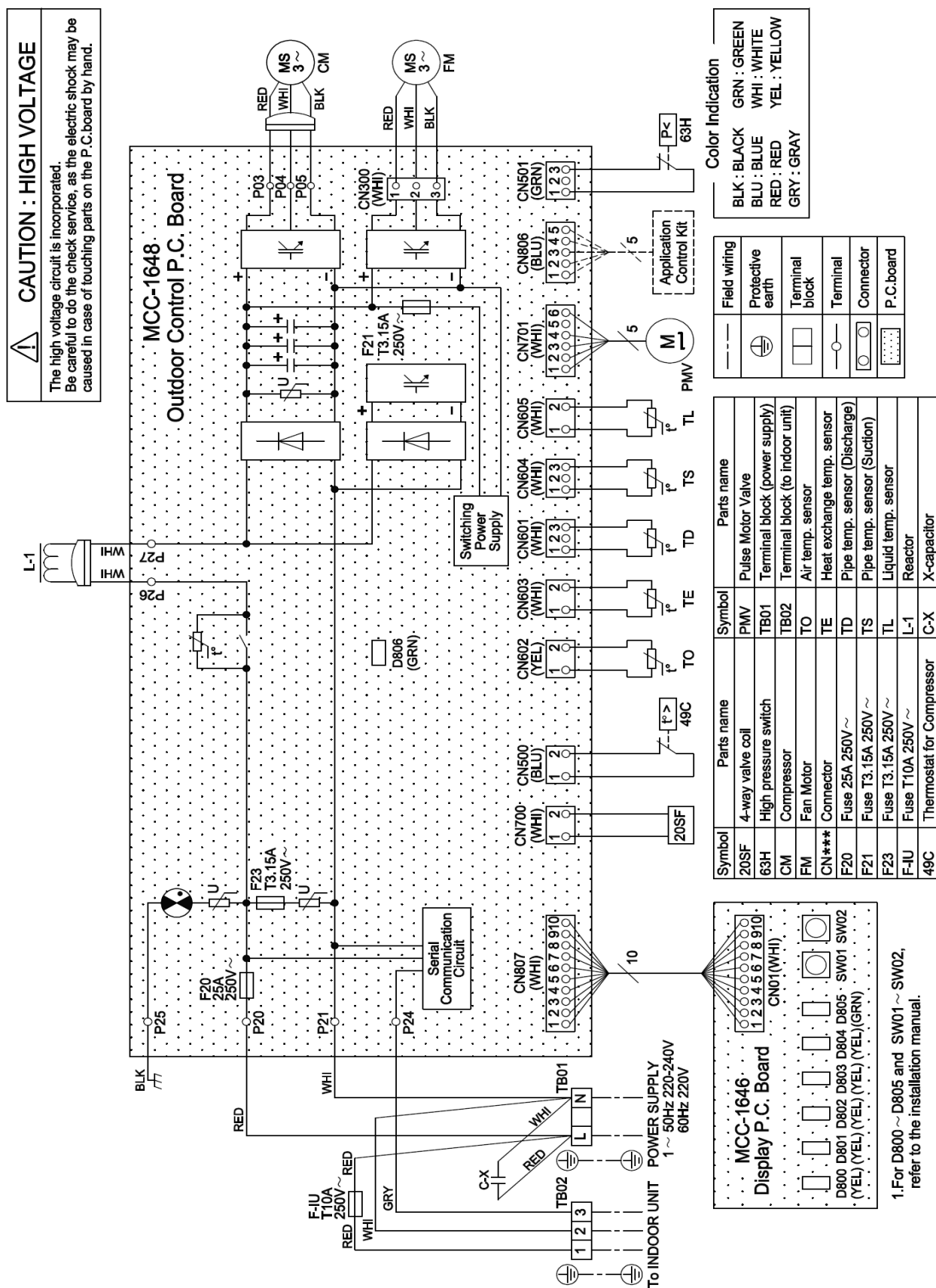
3-2. Dimension

RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR
RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR



3-3. Wiring diagrams

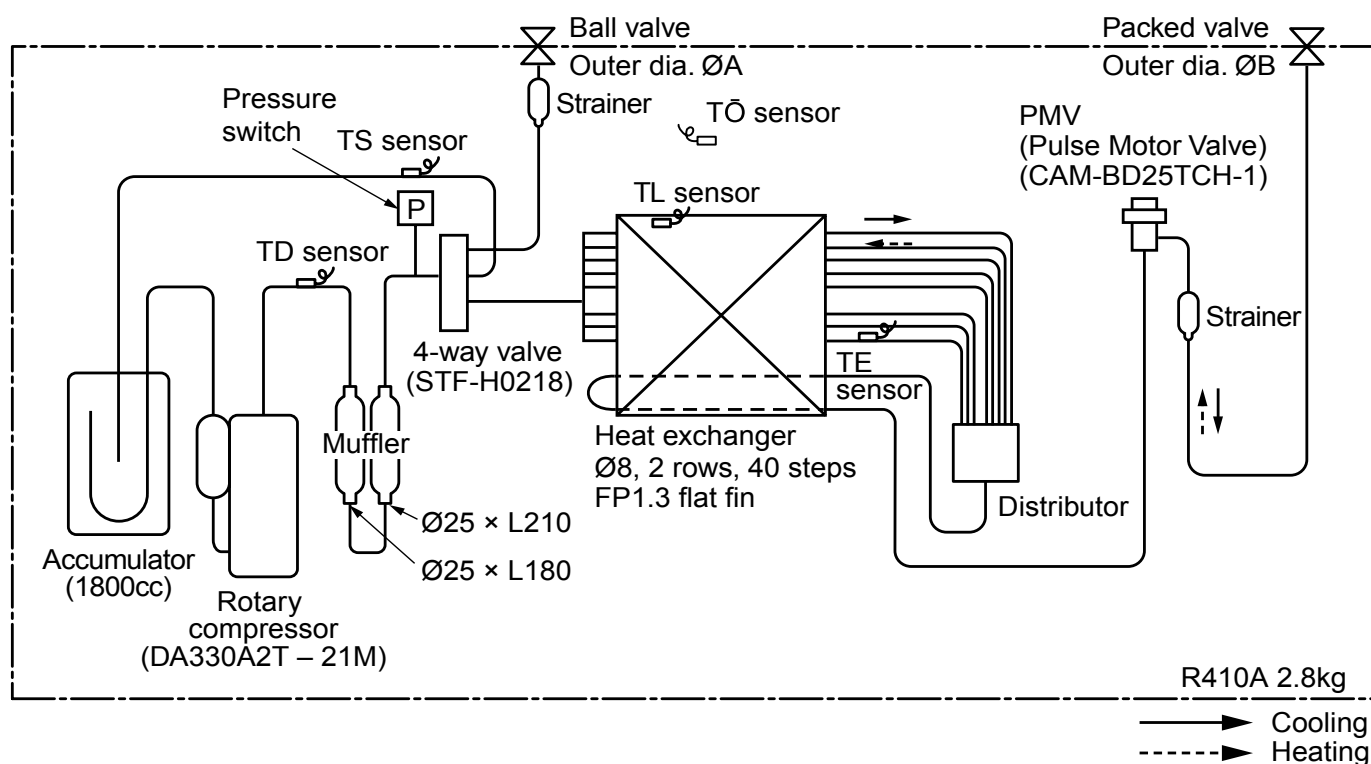
RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR
RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR



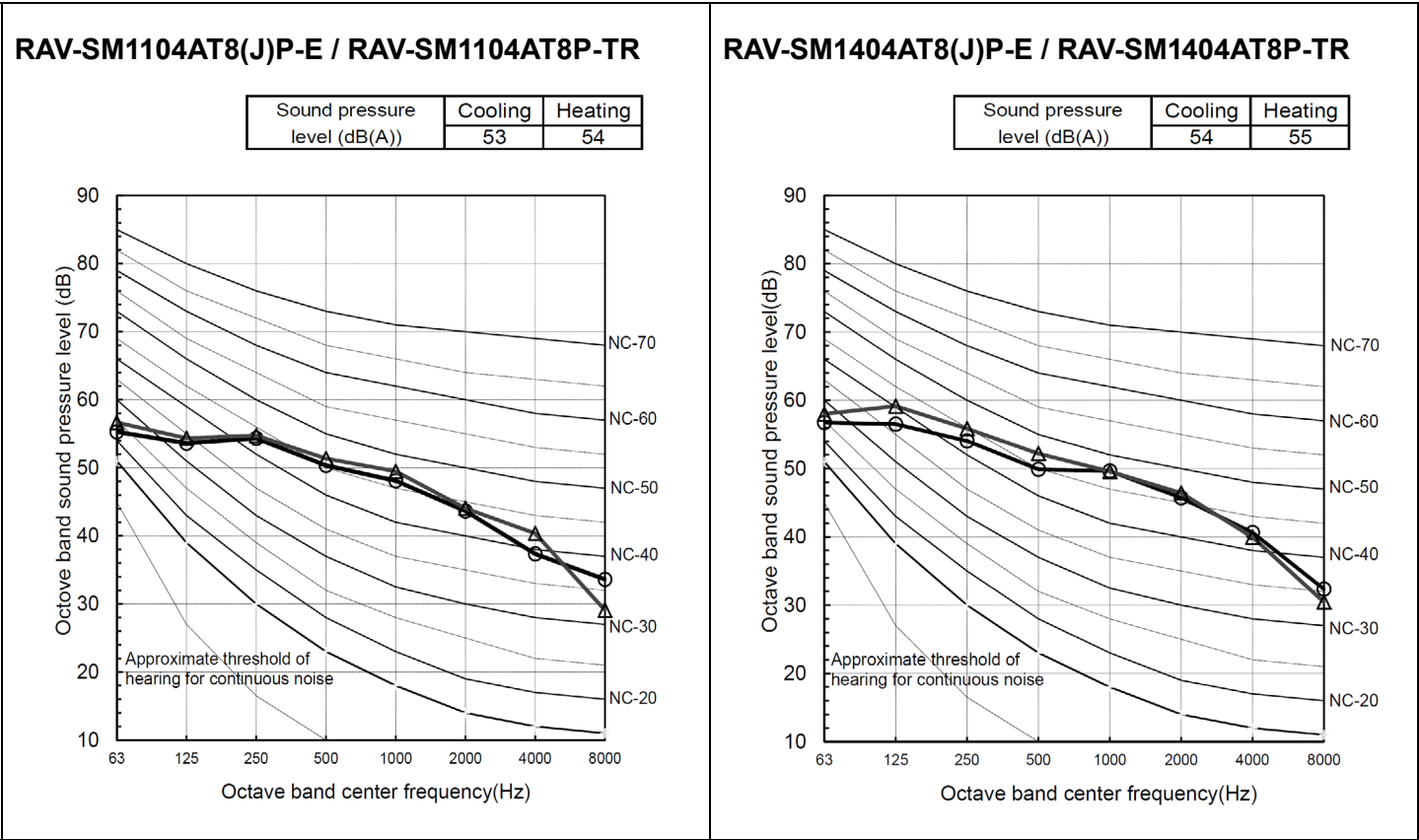
3-4. Refrigerant cycle diagram

RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR



3-5. Sound characteristics (NC curve)



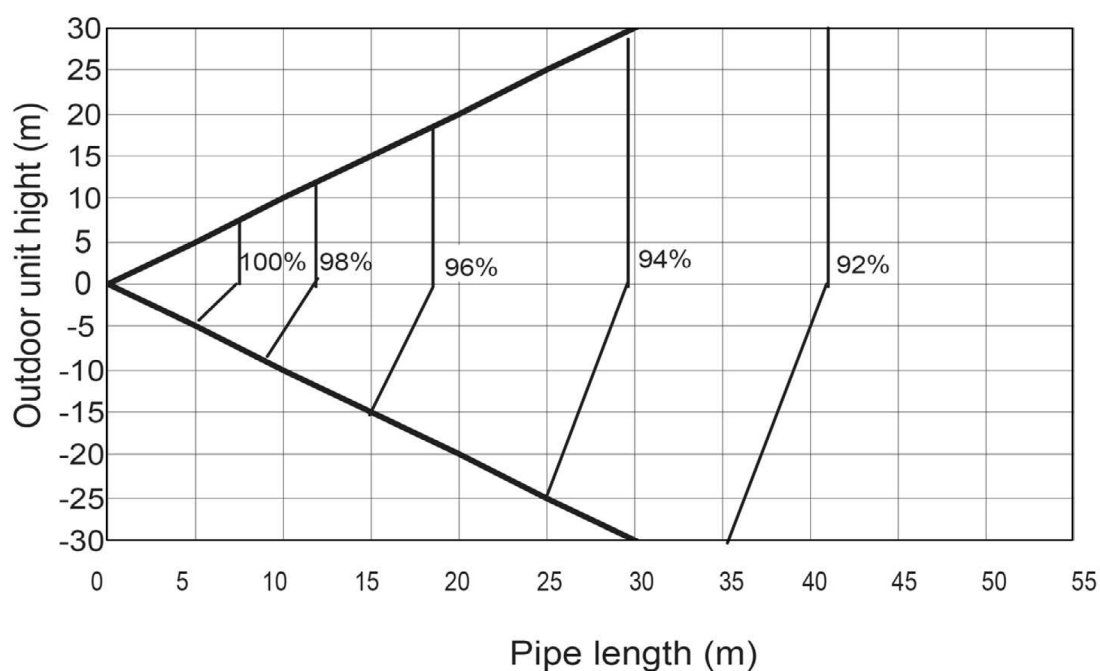
3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

RAV-SM1104AT8(J)P-E / RAV-SM1104AT8P-TR

RAV-SM1404AT8(J)P-E / RAV-SM1404AT8P-TR

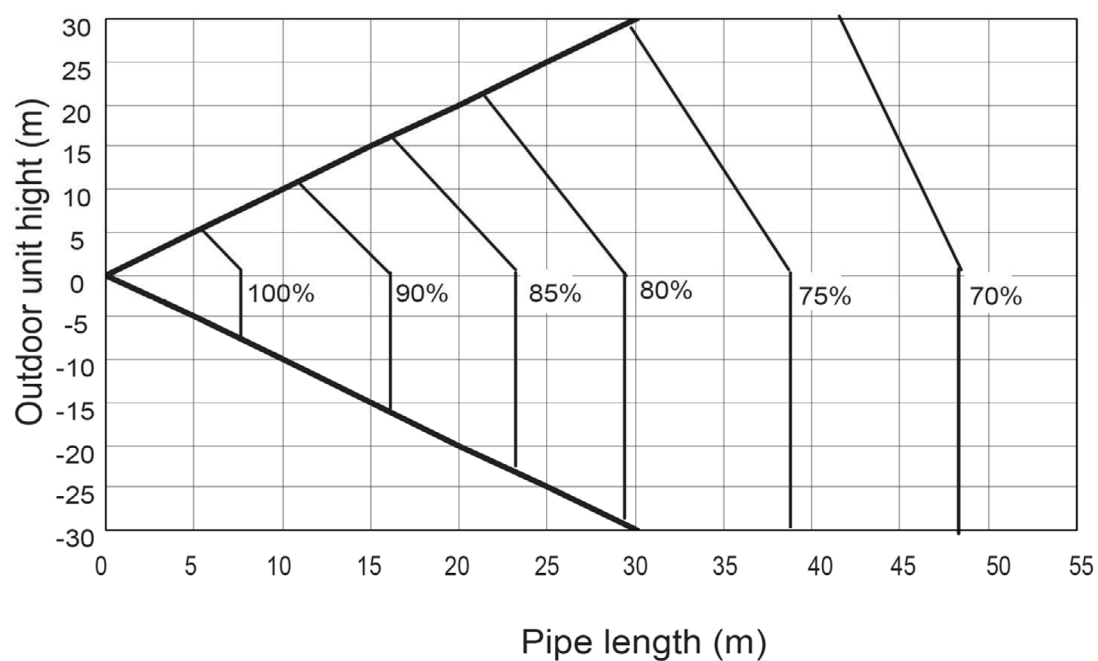
[Cooling]

Cooling performance



[Heating]

Heating performance



4. Option

4.1 Accessories

Indoor unit type	Parts name	Model name	Indoor unit model name
4-way cassette type	Standard panel	RBC-U31PGP(W)-E	RAV-SM**4UTP-E(TR)
	MTO straight, white color panel	RBC-U31PGSP(W)-E	
	Standard panel	RBC-U31PGSP(WS)-E	
	Fresh air and filter chamber	TCB-GFC1602UE2	
	Fresh air inlet box	TCB-GB1602UE2	
	Auxiliary fresh air flange	TCB-FF101URE2	
	Spacer for height adjustment	TCB-SP1602UE	
	Air discharge direction kit	TCB-BC1602UE	
Compact 4way cassette type	Panel	RBC-UM11PG(W)E	RAV-SM**4MUT-E(TR)
			RAV-SM**7MUT-E(TR)
Ducted type	Flange	TCB-SF56C6BE	RAV-SM566BT-E(TR)
		TCB-SF80C6BE	RAV-SM806BT-E(TR)
		TCB-SF160C6BE	RAV-SM1106BT-E(TR) / SM1404BT-E(TR)
Ceiling type	Drain pump kit	TCB-DP31CE	RAV-SM**8CTP-E(TR)
	Elbow Piping Kit	TCB-KP13CE	RAV-SM568CTP-E(TR)
		TCB-KP23CE	RAV-SM808CTP-E(TR), RAV-SM1108CTP-E(TR), RAV-SM1408CTP-E(TR)
	Optional connecting kit	TCB-PCUC1E	RAV-SM**8CTP-E(TR)

Parts name	Model name	Outdoor unit model name
Branch-kit	RBC-TWP30E2	RAV-SM1104AT8 (J)P-E / RAV-SM1104AT8P-TR
	RBC-TWP50E2	RAV-SM1404AT8 (J)P-E / RAV-SM1404AT8P-TR

4.2 Controller

Parts name	Model name	Used with
Wired remote controller	RBC-AMS51E	All indoor units
	RBC-AMT32E	All indoor units
Simple wired controller	RBC-AS21E2	All indoor units
Wireless remote controller	RBC-AX31U(W)-E	4-way cassette (4 series) units
	RBC-AX32U(WS)-E	
	RBC-AX22CE2	Ceiling units
	TCB-AX21E2	All indoor units
Remote controller with weekly timer	RBC-SMS41E	All indoor units
Schedule timer	TCB-EXS21TLE	Wired remote controller
ON-OFF controller	TCB-CC163TLE2	Wired remote controller/Central remote controller
Central controller	TCB-SC642TLE2	All indoor units
	BMS-CM1280TLE	All indoor units
1:1 model connection interface	TCB-PCNT30TLE2	4 way cassette type / Compact 4-way cassette type / Ducted type Slim Duct type / Ceiling type / High wall type
Terminal box	TCB-PX30MUE	Used with TCB-PCNT30TLE2
		4-way cassette (4 series) type / Compact 4 way cassette type

Energy Save operation (RBC-AMS51E/RBC-AMT32E/RBC-AMS41E)

The method to control power consumption by limiting the peak of the compressor's electric current.

= To control peak current by limiting **% of the current release

		FCU only function	Combination function with CDU		
			DI series 4		
			Energy save operation (Limit the peak of electric current)	Night Operation by only New Controller *2	Frost Protection (8°C set temp. in heating mode)
4-way cassette type	RAV-SM**4UT-E(TR)	×	○	×	×
	RAV-SM**4UTP-E(TR)	×	○	×	×
Compact 4-way cassette type	RAV-SM**4MUT-E(TR)	OK	○	×	×
	RAV-SM**7MUT-E(TR)	OK	○	×	×
Ducted type	RAV-SM**6BT-E(TR)	OK	○	×	×
Slim duct type	RAV-SM**4SDT-E	×	○	×	×
Ceiling type	RAV-SM**4CT-E(TR)	OK	○	×	×
	RAV-SM**7CTP-E(TR)	OK	○	×	×
	RAV-SM**8CTP-E(TR)	OK	○	×	×
High Wall type	RAV-SM**6KRT-E(TR)	×	○	×	×

*1) A2A HEX: VN-M**HE

*2) New Controller : RBC-AMS51E-ES, RBC-AMS51E-EN

*3) Only 75% :Even if save ratio is set over 50%, the save operation will be 75% automatically

	RBC-AMS51E-ES/EN	RBC-AMT32E/RBC-AMS41E
○	0%, 50%, Option (Only 75%)*3	Option (Only 75%)*3
×	NA	NA

Appendix

Specifications for ErPLot-10**Digital Inverter <Series4> 3 Phase**

No	Outdoor unit type	Connection type	HP	Indoor unit		Outdoor unit		Rated Capacity (kW)		Specifications					
				Model name	Qty	Model name	Qty	Cooling	Heating	SEER	Energy Label	Pdesign C	SCOP (average)	Energy Label	Pdesign h (average)
1	DI	Single	4.0	RAV-SM1104UTP-E	1	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.87	A+	10.0	4.28	A+	8.0
2	DI	Single	4.0	RAV-SM1106BTP-E1	1	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.10	A	10.0	4.14	A+	7.6
3	DI	Single	4.0	RAV-SM1108CTP-E	1	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.79	A+	10.0	4.27	A+	7.6
4	DI	Twin	4.0	RAV-SM564UTP-E	2	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.72	A+	10.0	4.28	A+	8.0
5	DI	Twin	4.0	RAV-SM564MUT-E	2	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.04	B	10.0	4.17	A+	7.6
6	DI	Twin	4.0	RAV-SM566BTP-E1	2	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.10	A	10.0	4.14	A+	7.6
7	DI	Twin	4.0	RAV-SM564SDT-E	2	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.09	B	10.0	4.16	A+	7.6
8	DI	Twin	4.0	RAV-SM568CTP-E	2	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.70	A+	10.0	4.27	A+	7.6
9	DI	Twin	4.0	RAV-SM566KRT-E	2	RAV-SM1104AT8(J)P-E	1	10.0	11.2	5.13	A	10.0	4.18	A+	7.6
10	DI	Single	5.0	RAV-SM1404UTP-E	1	RAV-SM1404AT8(J)P-E	1	12.0	12.8	5.36	A	12.0	4.19	A+	8.0
11	DI	Single	5.0	RAV-SM1406BTP-E	1	RAV-SM1404AT8(J)P-E	1	12.1	12.8	--	--	--	--	--	--
12	DI	Single	5.0	RAV-SM1408CTP-E	1	RAV-SM1404AT8(J)P-E	1	12.1	12.8	--	--	--	--	--	--
13	DI	Twin	5.0	RAV-SM804UTP-E	2	RAV-SM1404AT8(J)P-E	1	12.0	12.8	5.25	A	12.0	4.19	A+	8.0
14	DI	Twin	5.0	RAV-SM806BTP-E1	2	RAV-SM1404AT8(J)P-E	1	12.1	12.8	--	--	--	--	--	--
15	DI	Twin	5.0	RAV-SM808CTP-E	2	RAV-SM1404AT8(J)P-E	1	12.1	12.8	--	--	--	--	--	--
16	DI	Twin	5.0	RAV-SM806KRT-E	2	RAV-SM1404AT8(J)P-E	1	12.1	12.8	--	--	--	--	--	--

Specifications for Turkey Lot-10**Digital Inverter <Series4> 3 Phase**

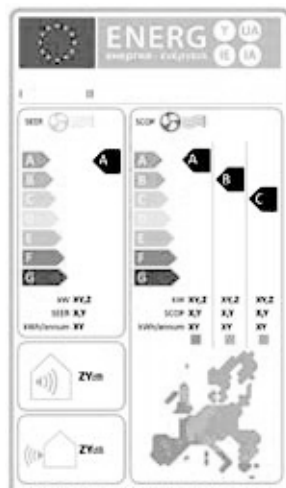
No	Outdoor unit type	Connection type	HP	Indoor unit		Outdoor unit		Rated Capacity (kW)		Specifications					
				Model name	Qty	Model name	Qty	Cooling	Heating	SEER	Energy Label	Pdesign C	SCOP (average)	Energy Label	Pdesign h (average)
1	DI	Single	4.0	RAV-SM1104UTP-TR	1	RAV-SM1104AT8P-TR	1	10.0	11.2	5.87	A+	10.0	4.28	A+	8.0
2	DI	Single	4.0	RAV-SM1106BTP-TR	1	RAV-SM1104AT8P-TR	1	10.0	11.2	5.10	A	10.0	4.14	A+	7.6
3	DI	Single	4.0	RAV-SM1108CTP-TR	1	RAV-SM1104AT8P-TR	1	10.0	11.2	5.79	A+	10.0	4.27	A+	7.6
4	DI	Twin	4.0	RAV-SM564UTP-TR	2	RAV-SM1104AT8P-TR	1	10.0	11.2	5.72	A+	10.0	4.28	A+	8.0
5	DI	Twin	4.0	RAV-SM564MUT-TR	2	RAV-SM1104AT8P-TR	1	10.0	11.2	5.04	B	10.0	4.17	A+	7.6
6	DI	Twin	4.0	RAV-SM566BTP-TR	2	RAV-SM1104AT8P-TR	1	10.0	11.2	5.10	A	10.0	4.14	A+	7.6
7	DI	Twin	4.0	RAV-SM564SDT-E	2	RAV-SM1104AT8P-TR	1	10.0	11.2	5.09	B	10.0	4.16	A+	7.6
8	DI	Twin	4.0	RAV-SM568CTP-TR	2	RAV-SM1104AT8P-TR	1	10.0	11.2	5.70	A+	10.0	4.27	A+	7.6
9	DI	Twin	4.0	RAV-SM566KRT-TR	2	RAV-SM1104AT8P-TR	1	10.0	11.2	5.13	A	10.0	4.18	A+	7.6
10	DI	Single	5.0	RAV-SM1404UTP-TR	1	RAV-SM1404AT8P-TR	1	12.0	12.8	5.36	A	12.0	4.19	A+	8.0
11	DI	Single	5.0	RAV-SM1406BTP-TR	1	RAV-SM1404AT8P-TR	1	12.1	12.8	--	--	--	--	--	--
12	DI	Single	5.0	RAV-SM1408CTP-TR	1	RAV-SM1404AT8P-TR	1	12.1	12.8	--	--	--	--	--	--
13	DI	Twin	5.0	RAV-SM804UTP-TR	2	RAV-SM1404AT8P-TR	1	12.0	12.8	5.25	A	12.0	4.19	A+	8.0
14	DI	Twin	5.0	RAV-SM806BTP-TR	2	RAV-SM1404AT8P-TR	1	12.1	12.8	--	--	--	--	--	--
15	DI	Twin	5.0	RAV-SM808CTP-TR	2	RAV-SM1404AT8P-TR	1	12.1	12.8	--	--	--	--	--	--
16	DI	Twin	5.0	RAV-SM806KRT-TR	2	RAV-SM1404AT8(J)P-E	1	12.1	12.8	--	--	--	--	--	--

* ErP Lot 10

In Europe the nominal efficiency method is becoming outdated.

The Seasonal Energy Efficiency Ratio (SEER) and the Seasonal Coefficient Of Performance (SCOP) will be introduced. The SEER/SCOP measuring method is more reliable and better represent the performance of the units during the year. Instead of a single reference temperature condition, with this new method the air conditioning systems are evaluated at different operating conditions (partial load); where Toshiba inverter units are known for being extremely efficient.

The SEER/SCOP measurement applies only to air conditioners in single or multi split combinations with a cooling capacity below 12kW.



Energy Efficiency Class	SEER	SCOP
A+++	SEER ≥ 8.50	SCOP ≥ 5.10
A++	6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+	5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A	5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B	4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C	4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D	3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80
E	3.10 ≤ SEER < 3.60	2.20 ≤ SCOP < 2.50
F	2.60 ≤ SEER < 3.10	1.90 ≤ SCOP < 2.20
G	SEER < 2.60	SCOP < 1.90

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